

| Fabricante | Modelo | Tipo de equipo | Hardware                     | Numero de Serie | Tipo de contrato | Tipo de Soporte | Localización | Fin del soporte |
|------------|--------|----------------|------------------------------|-----------------|------------------|-----------------|--------------|-----------------|
| Juniper    | MX480  | Router         | Chassis                      | JN124E647AFB    |                  |                 |              |                 |
|            |        |                | Enhanced MX480 Midplane      | ACRD6513        |                  |                 |              |                 |
|            |        |                | Front Panel Display          | CADN9634        |                  |                 |              |                 |
|            |        |                | PS 1.4-2.52kW; 90-264V AC in | QCS1436U09F     |                  |                 |              |                 |
|            |        |                | PS 1.4-2.52kW; 90-264V AC in | QCS1433U1H4     |                  |                 |              |                 |
|            |        |                | PS 1.4-2.52kW; 90-264V AC in | QCS1433U1BD     |                  |                 |              |                 |
|            |        |                | PS 1.4-2.52kW; 90-264V AC in | QCS1436U07Z     |                  |                 |              |                 |
|            |        |                | RE-S-1800x4                  | 9013081814      |                  |                 |              |                 |
|            |        |                | RE-S-1800x4                  | 9013081866      |                  |                 |              |                 |
|            |        |                | Enhanced MX SCB 3            | CARF5000        |                  |                 |              |                 |
|            |        |                | Enhanced MX SCB 3            | CARC3541        |                  |                 |              |                 |
|            |        |                | MPC10E 3D MRATE-10xQSFP      | CARD6924        |                  |                 |              |                 |
|            |        |                | FMPC PMB                     | CARC3260        |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-SR4            | 1F1CQ1A53001G   |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-SR4            | 1F1CQ1A530020   |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-SR4            | 1F1CQ1A53001Y   |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-SR4            | 1F1CQ1A53001J   |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-SR4            | 1F1CQ1A53001N   |                  |                 |              |                 |
|            |        |                | QSFP-100GBASE-LR4            | 1G3TQAA6400ES   |                  |                 |              |                 |
|            |        |                | QSFP+-40G-LR4                | 1FCPA613117     |                  |                 |              |                 |
|            |        |                | MPCE Type 3 3D               | CADM0666        |                  |                 |              |                 |
|            |        |                | HMPC PMB 2G                  | CADT7267        |                  |                 |              |                 |
|            |        |                | 10X10GE SFPP                 | CADM0788        |                  |                 |              |                 |
|            |        |                | SFP+-10G-SR                  | CF15KN162       |                  |                 |              |                 |
|            |        |                | SFP+-10G-LR                  | FC72005858      |                  |                 |              |                 |
|            |        |                | SFP+-10G-LR                  | FC52004855      |                  |                 |              |                 |
|            |        |                | SFP+-10G-LR                  | FC72005658      |                  |                 |              |                 |
|            |        |                | SFP+-10G-SR                  | CF21KN19T       | Tipo 1(*)        | 24x7x4          | CIEMAT       | 31/12/26        |

|  |  |                                            |                |  |  |  |  |
|--|--|--------------------------------------------|----------------|--|--|--|--|
|  |  | SFP+-10G-SR                                | CF21KN1A0      |  |  |  |  |
|  |  | 3D 20x 1GE(LAN) SFP                        | CAGL2306       |  |  |  |  |
|  |  | SFP-LX10                                   | AC1617SA2D6    |  |  |  |  |
|  |  | SFP-LX10                                   | AC1617SA2D7    |  |  |  |  |
|  |  | SFP-LX10                                   | AC1617SA2D8    |  |  |  |  |
|  |  | SFP-T                                      | B210032        |  |  |  |  |
|  |  | SFP-T                                      | J460357        |  |  |  |  |
|  |  | SFP-T                                      | J460391        |  |  |  |  |
|  |  | SFP-T                                      | G1810048370    |  |  |  |  |
|  |  | SFP-T                                      | G1810048371    |  |  |  |  |
|  |  | SFP-T                                      | A262676        |  |  |  |  |
|  |  | SFP-T                                      | F321554        |  |  |  |  |
|  |  | SFP-T                                      | F321037        |  |  |  |  |
|  |  | SFP-T                                      | F320395        |  |  |  |  |
|  |  | SFP-T                                      | F320894        |  |  |  |  |
|  |  | MPCE Type 3 3D                             | CAHL6033       |  |  |  |  |
|  |  | HMPC PMB 2G                                | CAHP0828       |  |  |  |  |
|  |  | 1X100GE CFP                                | CADS2377       |  |  |  |  |
|  |  | CFP-100G-ER4                               | 37201222WXA114 |  |  |  |  |
|  |  | 10X10GE SFPP                               | CAGT2677       |  |  |  |  |
|  |  | SFP+-10G-SR                                | AA161831ZMB    |  |  |  |  |
|  |  | SFP+-10G-LR                                | FC72005712     |  |  |  |  |
|  |  | SFP+-10G-SR                                | CF20KN0DV      |  |  |  |  |
|  |  | SFP+-10G-SR                                | AA1849300LE    |  |  |  |  |
|  |  | SFP+-10G-SR                                | AA1849300LF    |  |  |  |  |
|  |  | SFP+-10G-SR                                | AZQ0KZ2        |  |  |  |  |
|  |  | Enhanced Left Fan Tray                     |                |  |  |  |  |
|  |  | 6500 14-Slot Packet-Optical Shelf Assembly | NTMRT0RLE02    |  |  |  |  |
|  |  | Access Panel, Converged (SONET)            | NNTMRT0RV3X7   |  |  |  |  |

|       |             |                      |                                                             |                  |           |                   |        |          |
|-------|-------------|----------------------|-------------------------------------------------------------|------------------|-----------|-------------------|--------|----------|
| CIENA | 6500-14slot | Equipo Óptico        | 4 x10G OTR 4xXFP/4xSFP+                                     | NNTMRT0RGJ5P     | Tipo 1(*) | N.A.              | CIEMAT | 31/12/26 |
|       |             |                      | FGA C-Band                                                  | NNTMRT0R9LHL     |           |                   |        |          |
|       |             |                      | FGA C-Band                                                  | NNTMRT0F0PY8     |           |                   |        |          |
|       |             |                      | 4 x10G OTR 4xXFP/4xSFP+                                     | NNTMRT0YMNMR     |           |                   |        |          |
|       |             |                      | SFP+, 10GE/FC1200, 850NM                                    | CK29HS06V        |           |                   |        |          |
|       |             |                      | MULTIRATE 1528.38-1568.77 50GHZ DWDM XFP                    | FNSRMY2010M00S0R |           |                   |        |          |
|       |             |                      | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK           | NNTMRT0VJK2K     |           |                   |        |          |
|       |             |                      | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28           | AVAGCN2010FG000C |           |                   |        |          |
|       |             |                      | CN-BS2-CD 2 GROUP BANDSPLITTER-100GHZ MODULE ASSY           | M8643401         |           |                   |        |          |
|       |             |                      | PASSIVE OPTICAL MULTIPLEXER (3-SLOT)                        | NNTMRT0XW1L7     |           |                   |        |          |
|       |             |                      | CN-100-C80 8-CH 100 GHZ DWDM MODULE ASSY                    | M96CB32E         |           |                   |        |          |
|       |             |                      | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28           | AVAGCN2035FG00DW |           |                   |        |          |
|       |             |                      | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28           | AVAGCN2036FG0052 |           |                   |        |          |
|       |             |                      | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK           | NNTMRT0VLKFJ     |           |                   |        |          |
|       |             |                      | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK           | NNTMRT0XE7KN     |           |                   |        |          |
|       |             |                      | SP-2                                                        | NTMRT0RME45      |           |                   |        |          |
|       |             |                      | SP-2                                                        | NNTMRT0RRH4V     |           |                   |        |          |
|       |             |                      | Power Card 60A breakered                                    | NNTMRT0REF97     |           |                   |        |          |
|       |             |                      | MIC (Maintenance Interface Card)                            | NNTMRT0PN6GP     |           |                   |        |          |
|       |             |                      | Power Card 60A breakered                                    | NNTMRT0REF98     |           |                   |        |          |
|       |             |                      | Recitificador                                               |                  |           |                   |        |          |
| ADVA  | 64ALM-1650D | Monitorización de FO | ALM Monitor Unit 64 ports with LC/APC connector, AC powered | FA72183500308    | Tipo 1(*) | Next Business Day | CIEMAT | 31/12/26 |
|       |             |                      | ALM WDM Coupler shelf 1HU filter shelf w/16x1650nm          | FA70185103415    |           |                   |        |          |
|       |             |                      | ALM WDM Coupler shelf 1HU filter shelf w/16x1650nm          | FA70190601599    |           |                   |        |          |
|       |             |                      | SW for ALM relase                                           | n.a.             |           |                   |        |          |
|       |             |                      | Jumper for internal cabling connector                       | n.a.             |           |                   |        |          |
|       |             |                      | Chassis                                                     | JN125C534AFB     |           |                   |        |          |
|       |             |                      | Enhanced MX480 Midplane                                     | ACRF5840         |           |                   |        |          |
|       |             |                      | Front Panel Display                                         | CAFJ6334         |           |                   |        |          |

|         |       |        |                              |              |           |        |      |          |
|---------|-------|--------|------------------------------|--------------|-----------|--------|------|----------|
| Juniper | MX480 | Router | PS 1.4-2.52kW; 90-264V AC in | QCS1544U05T  | Tipo 1(*) | 24x7x4 | CSIC | 31/12/26 |
|         |       |        | PS 1.4-2.52kW; 90-264V AC in | QCS1544U05S  |           |        |      |          |
|         |       |        | PS 1.4-2.52kW; 90-264V AC in | QCS1544U05C  |           |        |      |          |
|         |       |        | PS 1.4-2.52kW; 90-264V AC in | QCS1544U05F  |           |        |      |          |
|         |       |        | RE-S-1800x4                  | 9013105603   |           |        |      |          |
|         |       |        | RE-S-1800x4                  | 9013105910   |           |        |      |          |
|         |       |        | Enhanced MX SCB 3            | CARF5014     |           |        |      |          |
|         |       |        | Enhanced MX SCB 3            | CARF6379     |           |        |      |          |
|         |       |        | MPC3E NG PQ & Flex Q         | CAHJ8021     |           |        |      |          |
|         |       |        | RMPC PMB                     | CAHH6287     |           |        |      |          |
|         |       |        | 3D 20x 1GE(LAN) SFP          | CAFE5451     |           |        |      |          |
|         |       |        | SFP-T                        | F320203      |           |        |      |          |
|         |       |        | SFP-T                        | 63632047     |           |        |      |          |
|         |       |        | SFP-T                        | B021754      |           |        |      |          |
|         |       |        | SFP-LX10                     | AC1601SA1GX  |           |        |      |          |
|         |       |        | SFP-LX10                     | 19T459600069 |           |        |      |          |
|         |       |        | SFP-LX10                     | AC1951SA7NP  |           |        |      |          |
|         |       |        | SFP-SX                       | NT30289      |           |        |      |          |
|         |       |        | SFP-SX                       | NT33A9R      |           |        |      |          |
|         |       |        | SFP-T                        | G1810048369  |           |        |      |          |
|         |       |        | SFP-T                        | F320768      |           |        |      |          |
|         |       |        | SFP-T                        | F320027      |           |        |      |          |
|         |       |        | SFP-LX10                     | 19T459600012 |           |        |      |          |
|         |       |        | SFP-T                        | F321351      |           |        |      |          |
|         |       |        | SFP-T                        | F321041      |           |        |      |          |
|         |       |        | 10X10GE SFPP                 | CAAZ1713     |           |        |      |          |
|         |       |        | SFP+-10G-SR                  | ND9C5LW      |           |        |      |          |
|         |       |        | SFP+-10G-SR                  | AA161831ZMJ  |           |        |      |          |
|         |       |        | SFP+-10G-ZR                  | Z24180823    |           |        |      |          |
|         |       |        | SFP+-10G-SR                  | CF21KN19W    |           |        |      |          |

|  |  |  |                                            |               |  |  |  |  |
|--|--|--|--------------------------------------------|---------------|--|--|--|--|
|  |  |  | SFP+-10G-SR                                | CF21KN194     |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | CF21KN19B     |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | CF21KN19X     |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | MUE06Z8       |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | ASA25P6       |  |  |  |  |
|  |  |  | MPC3E NG PQ & Flex Q                       | CAFF5501      |  |  |  |  |
|  |  |  | RMPC PMB                                   | CAFJ1899      |  |  |  |  |
|  |  |  | 10X10GE SFPP                               | CAFF9413      |  |  |  |  |
|  |  |  | SFP+-10G-ER                                | S2108168972   |  |  |  |  |
|  |  |  | SFP+-10G-ER                                | 1C1CUK729024  |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | NC3D261       |  |  |  |  |
|  |  |  | SFP+-10G-LR                                | FC72005824    |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | AA18323102J   |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | AA183231057   |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | AA18323102N   |  |  |  |  |
|  |  |  | SFP+-10G-LR                                | LDF2006922    |  |  |  |  |
|  |  |  | SFP+-10G-LR                                | FC72005743    |  |  |  |  |
|  |  |  | SFP+-10G-SR                                | AA15423V86P   |  |  |  |  |
|  |  |  | MPC10E 3D MRATE-10xQSFP                    | CAPV5905      |  |  |  |  |
|  |  |  | FMPC PMB                                   | CAPV7239      |  |  |  |  |
|  |  |  | QSFP-100GBASE-SR4                          | 1ECQ14460AC   |  |  |  |  |
|  |  |  | QSFP-100GBASE-SR4                          | G2130084045   |  |  |  |  |
|  |  |  | QSFP-100GBASE-SR4                          | 1ECQ14460AE   |  |  |  |  |
|  |  |  | QSFP-100GBASE-LR4                          | 1GCQA34805Q   |  |  |  |  |
|  |  |  | QSFP-100GBASE-SR4                          | 1F1CQ1A53001U |  |  |  |  |
|  |  |  | QSFP-100G-4WDM-40                          | 1W1CQMA84804T |  |  |  |  |
|  |  |  | Enhanced Left Fan Tray                     |               |  |  |  |  |
|  |  |  | 6500 14-Slot Packet-Optical Shelf Assembly | N NTMRT0RE55E |  |  |  |  |
|  |  |  | Access Panel, Converged (SONET)            | NNTMRT0RV3X9  |  |  |  |  |

|         |             |                      |                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                      |           |                   |         |          |
|---------|-------------|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------|---------|----------|
| CIENA   | 6500-14slot | Equipo Óptico        | 4 x10G OTR 4xXFP/4xSFP+<br>SP-2<br>SP-2<br>Power Card 60A breakered<br>MIC (Maintenance Interface Card)<br>100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28<br>100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28<br>100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK<br>100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK<br>Power Card 60A breakered<br>Rectificador | NNTMRT0RGJV9<br>NNTMRT0RPPDD<br>NNTMRT0RRH4L<br>NNTMRT0REF9H<br>NNTMRT0PN5YJ<br>AVAGCN2035FG00ZG<br>AVAGCN2036FG00J5<br>NNTMRT0XC2W8<br>NNTMRT0XE7L4<br>NNTMRT0REF9E | Tipo 1(*) | N.A.              | CSIC    | 31/12/26 |
| Juniper | MX204       | Router               | Chassis<br>RE0<br>QSFP-100GBASE-LR4<br>PEM 0<br>PEM 1<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                                                                                        | BU367<br>CALP3177<br>1GCQA3480K9<br>1F188521171<br>1F188521325                                                                                                       | Tipo 1(*) | Next Business Day | CSICJOA | 31/12/26 |
| ADVA    | 64ALM-1650D | Monitorización de FO | ALM Monitor Unit 64 ports with LC/APC connector, AC powered<br>ALM WDM Coupler shelf 1HU filter shelf w/16x1650nm<br>ALM WDM Coupler shelf 1HU filter shelf w/16x1650nm<br>SW for ALM relase<br>Jumper for internal cabling connector                                                                                                                                   | FA72183400735<br>FA70190601600<br>FA70190601598<br>n.a.<br>n.a.                                                                                                      | Tipo 1(*) | Next Business Day | CSIC    | 31/12/26 |
|         |             |                      | Chassis<br>Enhanced MX480 Midplane<br>Front Panel Display<br>PS 1.4-2.52kW; 90-264V AC in                                                                                                                                                                                                                                                                               | JN124E6EEAFB<br>ACRD8264<br>CADN9690<br>QCS1436U02D                                                                                                                  |           |                   |         |          |

|         |       |        |                              |                |           |        |                   |          |
|---------|-------|--------|------------------------------|----------------|-----------|--------|-------------------|----------|
| Juniper | MX480 | Router | PS 1.4-2.52kW; 90-264V AC in | QCS1436U07E    | Tipo 1(*) | 24x7x4 | IMDEA<br>Software | 31/12/26 |
|         |       |        | PS 1.4-2.52kW; 90-264V AC in | QCS1433U1LX    |           |        |                   |          |
|         |       |        | PS 1.4-2.52kW; 90-264V AC in | QCS1436U076    |           |        |                   |          |
|         |       |        | RE-S-X6-128G-K               | EBBY7883       |           |        |                   |          |
|         |       |        | RE-S-X6-128G-K               | EBBN1361       |           |        |                   |          |
|         |       |        | Enhanced MX SCB 3            | EBBZ3943       |           |        |                   |          |
|         |       |        | Enhanced MX SCB 3            | EBBY3708       |           |        |                   |          |
|         |       |        | MPCE Type 3 3D               | CADP3961       |           |        |                   |          |
|         |       |        | HMPC PMB 2G                  | CADN9416       |           |        |                   |          |
|         |       |        | 10X10GE SFPP                 | CADM0753       |           |        |                   |          |
|         |       |        | SFP+-10G-SR                  | ASA24MP        |           |        |                   |          |
|         |       |        | SFP+-10G-ER                  | S2108168973    |           |        |                   |          |
|         |       |        | SFP+-10G-ER                  | 1C1CUKA92300A  |           |        |                   |          |
|         |       |        | SFP+-10G-ER                  | 1C1CUK72800P   |           |        |                   |          |
|         |       |        | SFP+-10G-SR                  | N8BAHWP        |           |        |                   |          |
|         |       |        | SFP+-10G-ER                  | 1C1CUKA922015  |           |        |                   |          |
|         |       |        | SFP+-10G-SR                  | CF21KN19V      |           |        |                   |          |
|         |       |        | SFP+-10G-LR                  | LDF2007370     |           |        |                   |          |
|         |       |        | SFP+-10G-LR                  | E62R1D5000127  |           |        |                   |          |
|         |       |        | SFP+-10G-LR                  | FC62005627     |           |        |                   |          |
|         |       |        | SFP+-10G-SR                  | AA1831303NH    |           |        |                   |          |
|         |       |        | SFP+-10G-SR                  | N8QAUFV        |           |        |                   |          |
|         |       |        | SFP-LX10                     | AC1951SA1ER    |           |        |                   |          |
|         |       |        | 3D 20x 1GE(LAN)-E,SFP        | CAFH5780       |           |        |                   |          |
|         |       |        | SFP-T                        | F320025        |           |        |                   |          |
|         |       |        | MPCE Type 3 3D               | CADP3918       |           |        |                   |          |
|         |       |        | HMPC PMB 2G                  | CADJ8092       |           |        |                   |          |
|         |       |        | 1X100GE CFP                  | CADS2360       |           |        |                   |          |
|         |       |        | 1X100GE CFP                  | BUILTIN        |           |        |                   |          |
|         |       |        | CFP-100G-ER4                 | 37201222YXA11N |           |        |                   |          |

|         |       |        |                                                                                                                                                                                                                                                      |                                                                                                                                 |           |        |     |          |
|---------|-------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----|----------|
|         |       |        | Enhanced Left Fan Tray                                                                                                                                                                                                                               |                                                                                                                                 |           |        |     |          |
| Juniper | MX104 | Router | Chassis<br>CB0<br>AC Power Entry Module<br>AC Power Entry Module<br>RE-MX-104<br>3D 2x 10GE XFP<br>XFP-10G-SR<br>XFP-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>Fan Tray                                                                                | AL026<br>CAGA1843<br>1H176040067<br>1H175300268<br>CAFT0806<br>CAFD2768<br>UVR12WZ<br>UVR0JDT<br>MUE077Y<br>MUE049V<br>CAFT9587 | Tipo 1(*) | 24x7x4 | UAM | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB0<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | CV011<br>CARM0935<br>AA161831ZMH<br>AA1849300K9<br>CF08KN1GZ<br>AA1831303RN<br>F320955<br>1F188521721<br>1F18A441520            | Tipo 1(*) | 24x7x4 | UAM | 31/12/26 |
|         |       |        | Chassis<br>CB0<br>QSFP-100GBASE-SR4<br>QSFP-100GBASE-SR4<br>QSFP-100GBASE-LR4<br>SFP+-10G-SR<br>SFP+-10G-LR                                                                                                                                          | CR282<br>CARM0685<br>1F1CQ1A6390AZ<br>1F1CQ1A63904S<br>1G3TQAA6400EP<br>AA18323103E<br>FC72005946                               |           |        |     |          |

|         |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                       |           |        |     |          |
|---------|------------|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----|----------|
| Juniper | MX204      | Router        | SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                                                                                                                                                                                                                                                                                                                                                   | AA161831ZMD<br>CF21KN19E<br>MUE07JP<br>1F188521860<br>1F18A510982                                                                                                                                                                                                                                     | Tipo 1(*) | 24x7x4 | UAM | 31/12/26 |
| CIENA   | 6500-7slot | Equipo Óptico | 6500 7-Slot Packet-Optical Shelf Assembly<br>SP-2<br>SP-2<br>Power Card 60A breakered<br>Power Card 60A breakered<br>COOLING FAN MODULE<br>4x10G OTR 4xXFP/4xSFP+<br>SFP+, 850nm, 10GE/FC1200<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz DWDM XFP<br>Multirate, 850nm, MMF, SFP+<br>.....<br>100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK<br>.....<br>100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28<br>.....<br>CN-BS2-CD 2 GROUP BANDSPLITTER-100GHZ MODULE ASSY<br>.....<br>CN-100-C80 8-CH 100 GHZ DWDM MODULE ASSY<br>.....<br>PASSIVE OPTICAL MULTIPLEXER (3-SLOT)<br>Rectificador | NNTMRT0R0MM9<br>NNTMRT0Y8WJX<br>NNTMRT0RME47<br>NNTMRT0YK9Y8<br>NNTMRT0YKC06<br>NNTMRT0Y5DT1<br>NNTMRT0YMNN7<br>CK29HS07U<br>FNSRMY2010M00S06<br>JDSUCTK183287074<br>A3SBBM0<br>.....<br>NNTMRT0VJK3N<br>.....<br>AVAGCN2010FG000V<br>.....<br>M96F4B7E<br>.....<br>M96E62D7<br>.....<br>NNTMRT0XW1LV | Tipo 1(*) | 24x7x4 | UAM | 31/12/26 |
|         |            |               | Chassis<br>CB 0<br>QSFP28-100G-ZR4<br>QSFP+40G-CU1M<br>QSFP-100GBASE-SR4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BU206<br>CALP3195<br>1W1CQVAA2700S<br>MOC25246230117<br>1ECQ14460AP                                                                                                                                                                                                                                   |           |        |     |          |

|         |       |        |                                                                                                                                                                                                                                                                             |                                                                                                                                      |           |        |      |          |
|---------|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|------|----------|
| Juniper | MX204 | Router | QSFP+40G-SR4<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                 | QJ5102TD<br>AA1831303NJ<br>N8QAJ3S<br>J460301<br>1F188520556<br>1F188520148                                                          | Tipo 1(*) | 24x7x4 | UC3M | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB 0<br>QSFP-100GBASE-SR4<br>QSFP+40G-SR4<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | BU319<br>CALP3248<br>1ECQ14460BD<br>QJ5102S7<br>AA1831302HR<br>AA1831303SM<br>CF21KN19K<br>17B00831593<br>1F188520472<br>1F188520770 | Tipo 1(*) | 24x7x4 | UC3M | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB 0<br>QSFP-100G-4WDM-40<br>QSFP28-100G-CU1M<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP-T                                                                                                                                                              | BU266<br>CALR0986<br>1W1CQMA94800Q<br>1P1C40A5375PM<br>AA1831303RD<br>CG42KN1TK<br>CF15KN247<br>F320732                              | Tipo 1(*) | 24x7x4 | URJC | 31/12/26 |

|         |       |        |                                                                                                                                                                                                                                            |                                                                                                                                                                       |           |                         |                   |          |
|---------|-------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-------------------|----------|
|         |       |        | JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                       | 1F188520773<br>1F188520456                                                                                                                                            |           |                         |                   |          |
| Juniper | MX204 | Router | Chassis<br>CB 0<br>QSFP28-100G-ZR4<br>QSFP28-100G-CU1M<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | BU315<br>CALR0251<br>1W1CQVAA24003<br>1P1C40A5375PM<br>AA1831303SJ<br>AA1831303R4<br>AA1831303NG<br>CG42KN1SS<br>1F188520290<br>1F188520310                           | Tipo 1(*) | 24x7x74                 | URJC              | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB 0<br>QSFP-100GBASE-LR4<br>QSFP28-100G-CU1M<br>SFP+-10G-ER<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-ER<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO                | BU324<br>CALP3186<br>1G3TQAAA311Q1<br>1P1C40A5375PH<br>C2512443376<br>AA1831303RV<br>N8QC1EE<br>AA161831ZMX<br>1C1CUKA92200H<br>F320023<br>1F188520729<br>1F188520746 | Tipo 1(*) | Next<br>Business<br>Day | IMDEA<br>Networks | 31/12/26 |

|         |       |        |                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                   |           |                         |                   |          |
|---------|-------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|-------------------|----------|
|         |       |        | Fan Tray, Front to Back Airflow - AFO                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                   |           |                         |                   |          |
| Juniper | MX204 | Router | Chassis<br>CB 0<br>QSFP-100G-4WDM-40<br>QSFP28-100G-CU1M<br>SFP+-10G-SR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                       | BU376<br>CALP3230<br>1W1CQMA94800R<br>1P1C40A5375PH<br>AA1831303PT<br>CF21KN0KQ<br>1F188520759<br>1F188520758                                                                     | Tipo 1(*) | Next<br>Business<br>Day | IMDEA<br>Networks | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB0<br>QSFP-100GBASE-SR4<br>QSFP28-100G-CU1M<br>QSFP+-40G-SR4<br>SFP+-10G-ER<br>SFP+-10G-SR<br>SFP+-10G-LR<br>SFP+-10G-LR<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | CP293<br>CAPV9905<br>1F1CQ1A52512P<br>1P1C40A5375NU<br>1ACP152300A<br>1C1CUK729035<br>NC3BTRE<br>FC42006160<br>FC72005737<br>AA1831303NB<br>F320644<br>1F18A310673<br>1F18A310632 | Tipo 1(*) | 24X7X4                  | UCM               | 31/12/26 |
|         |       |        | Chassis                                                                                                                                                                                                                                                                                                                       | BH487                                                                                                                                                                             |           |                         |                   |          |

|         |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                                                                                                      |           |        |     |          |
|---------|------------|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------|-----|----------|
| Juniper | MX204      | Router        | CB0<br>QSFP-100GBASE-SR4<br>QSFP28-100G-CU1M<br>QSFP-100GBASE-LR4<br>SFP+-10G-SR<br>SFP+-10G-LR<br>SFP-T<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                                                                                                                         | CAKX7179<br>1F1CQ1A5250XN<br>1P1C40A5375NU<br>1GCQA53602G<br>NC3BTSP<br>FC72005831<br>F321569<br>CF15KN128<br>F320208<br>1F18A310787<br>1F18A310692                                  | Tipo 1(*) | 24X7X4 | UCM | 31/12/26 |
| CIENA   | 6500-7slot | Equipo Óptico | 6500 7-Slot Packet-Optical Shelf Assembly<br>100G OTR WL3n Basic C-Band 1xQSFP28<br>100GBASE-SR4, 4x25G, MMF, 850nm, 100m, MPO QSFP28<br>100G OTR WL3n Basic C-Band 1xQSFP28<br>100GBASE-SR4, 4x25G, MMF, 850nm, 100m, MPO QSFP28<br>SP-2<br>SP-2<br>Power Card 60A breakered<br>Power Card 60A breakered<br>Access Panel<br>Fan<br>2150 Passive Optical Multiplexer (3-Slot) Chassis<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)<br>Rectificador | NNTMRT1160J3<br>NNTMRT0XE7L5<br>AVAGCN2036FG003Z<br>NNTMRT0XE7KM<br>AVAGCN2035FG0088<br>NNTMRT1199C6<br>NNTMRT11EXVC<br>NNTMRT10P0HR<br>NNTMRT10P0HT<br>NNTMRT10YMT6<br>NNTMRT10VYK1 | Tipo 1(*) | 24x7x4 | UCM | 31/12/26 |

|         |       |        |                                                                                                                                                                                                                                                            |                                                                                                                    |           |           |         |          |
|---------|-------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------|-----------|-----------|---------|----------|
| Juniper | MX204 | Router | Chassis<br>CB0<br>QSFP-100G-4WDM-40<br>SFP+-10G-ER<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                         | BU350<br>CALP3512<br>1W1CQMA84804R<br>1C1CUK72800U<br>CF21KN19M<br>1F188521051<br>1F188521253                      | Tipo 1(*) | 24x7x4    | URJCVIC | 31/12/26 |
| Juniper | MX204 | Router | Chassis<br>CB0<br>SFP+-10G-ER<br>SFP+-10G-ER<br>SFP+-10G-SR<br>SFP+-10G-SR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | HJ293<br>BCFX6610<br>1C1CUKA92200J<br>S2516531001<br>N8QAUGU<br>CG42KN1SQ<br>NC3BTE6<br>1F18D161283<br>1F18D170003 | Tipo 2(*) | 24x7x4    | URJCFU  | 31/12/28 |
| Juniper | MX204 | Router | Chassis<br>CB0<br>SFP+-10G-ER<br>SFP+-10G-ZR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO                                                                                                                                                          | HK210<br>BCFT2552<br>1C1CUK72903B<br>Z24180826<br>NC2CY08<br>1F18D161385<br>1F18D161538                            | Tipo 1(*) | N.A. (**) | UCMSOM  | 31/12/26 |

|         |       |        |                                                                                                                                                                                                                                                   |                                                                                                         |           |           |        |          |
|---------|-------|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------|-----------|--------|----------|
|         |       |        | Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                           |                                                                                                         |           |           |        |          |
| Juniper | MX204 | Router | Chassis<br>CB0<br>QSFP-100GBASE-SR4<br>SFP+-10G-ER<br>SFP+-10G-SR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | HJ292<br>BCFX6630<br>1F1CQ1A63903D<br>1C1CUKA92300C<br>N8QB7VN<br>NC3BTD4<br>1F18D164088<br>1F18D164393 | Tipo 2(*) | N.A. (**) | UNEDRO | 31/12/28 |
| Juniper | MX204 | Router | Chassis<br>CB0<br>SFP+-10G-ER<br>SFP+-10G-ZR<br>SFP+-10G-SR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                      | HK202<br>BCFW8411<br>1C1CUK729036<br>Z2418081M<br>NC2CYBL<br>1F18D170069<br>1F18D170240                 | Tipo 1(*) | 24X7X4    | UAMMED | 31/12/26 |
|         |       |        | Chassis<br>CB0<br>QSFP28-100G-CU1M<br>QSFP-100GBASE-SR4<br>QSFP-100GBASE-SR4                                                                                                                                                                      | HK213<br>BCFW8332<br>1P1C40A5375MB<br>1F2CQ1A9211KY<br>1F2CQ1A9211HL                                    |           |           |        |          |

|         |       |        |                                                                                                                                                                                                                                                                 |                                                                                                    |           |        |        |          |
|---------|-------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------|--------|--------|----------|
| Juniper | MX204 | Router | SFP+-10G-ZR<br>SFP+-10G-SR<br>SFP-T<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                            | Z24180827<br>AA191530DUE<br>NB1B9B0<br>1F18D170232<br>1F18D170170                                  | Tipo 1(*) | 24X7X4 | UAHT   | 31/12/26 |
| Juniper | MX204 | Router | JNP204 [MX204]<br>JNP204 [MX204]<br>QSFP28-100G-CU1M<br>QSFP-100GBASE-SR4<br>QSFP-100GBASE-SR4<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO | HK215<br>BCFW8398<br>1P1C40A5375MB<br>1F2CQ1A9211KX<br>1F2CQ1A9211MC<br>1F18D164530<br>1F18D161839 | Tipo 1(*) | 24x7x4 | UAHT   | 31/12/26 |
| Juniper | MX204 | Router | JNP204 [MX204]<br>JNP204 [MX204]<br>SFP+-10G-ER<br>SFP+-10G-LR<br>JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                 | HJ262<br>BCFX6632<br>1C1CUKA923009<br>FC72005743<br>1F18D164504<br>1F18D164481                     | Tipo 2(*) | 24x7x4 | UC3MPT | 31/12/28 |
|         |       |        | 6500-7 Packet-Optical Shelf Assembly<br>ESAM C-Band w/OSC 1xSFP 10/100 BT WSC                                                                                                                                                                                   | NNTMRT1KLRCT<br>NNTMRT1KPxM1                                                                       |           |        |        |          |

|         |            |                  |                                                        |                  |           |           |      |          |
|---------|------------|------------------|--------------------------------------------------------|------------------|-----------|-----------|------|----------|
| CIENA   | 6500-7slot | Equipo<br>Óptico | SP-3                                                   | NNTMRT1KLCGF     | Tipo 2(*) | N.A. (**) | UAHT | 4/11/28  |
|         |            |                  | SP-3                                                   | NNTMRT1KLCWE     |           |           |      |          |
|         |            |                  | Power Card 60A breakered                               | NNTMRT1KCFL0     |           |           |      |          |
|         |            |                  | Power Card 60A breakered                               | NNTMRT1KCG35     |           |           |      |          |
|         |            |                  | OC-3 0-34dB CWDM 1511 nm Low TX Power                  | WTOTBE2505077012 |           |           |      |          |
|         |            |                  | MLA C-Band                                             | NNTMRT1K4M24     |           |           |      |          |
|         |            |                  | MLA C-Band                                             | NNTMRT1K4M25     |           |           |      |          |
|         |            |                  | ESAM C-Band w/OSC 1xSFP 10/100 BT WSC                  | NNTMRT1KFDC8     |           |           |      |          |
|         |            |                  | OC-3 0-34dB CWDM 1511 nm Low TX Power                  | WTOTBE2505077344 |           |           |      |          |
|         |            |                  | 100G OTR WL3n Basic C-Band 1xQSFP28                    | NNTMRT1LCRL9     |           |           |      |          |
|         |            |                  | 100GBASE-SR4, 4x25G, MMF, 850nm, 100m, MPO QSFP28      | AVAGCN2052FG00B9 |           |           |      |          |
|         |            |                  | 100G OTR WL3n Basic C-Band 1xQSFP28                    | NNTMRT1LCRME     |           |           |      |          |
|         |            |                  | 6-Slot Passive Photonics Chassis (PPC6)                | M9979B8E         |           |           |      |          |
|         |            |                  | CN-100-B4L 4-Ch OMDF 100GHz Group B-Low (1540-1542 nm) | M9910E6D         |           |           |      |          |
|         |            |                  | CN-100-B4L 4-Ch OMDF 100GHz Group B-Low (1540-1542 nm) | M9910E6A         |           |           |      |          |
|         |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm) | M99279F2         |           |           |      |          |
|         |            |                  | 100GBASE-SR4, 4x25G, MMF, 850nm, 100m, MPO QSFP28      | AVAGCN2052FG009D |           |           |      |          |
|         |            |                  | 2110-T0-60 DCM -60 Type 1 C-Band (Half-Width)          | M97361EC         |           |           |      |          |
|         |            |                  | 6-Slot Passive Photonics Chassis (PPC6)                | M9979B8E         |           |           |      |          |
|         |            |                  | CN-100-B4L 4-Ch OMDF 100GHz Group B-Low (1540-1542 nm) | M9910E6D         |           |           |      |          |
|         |            |                  | CN-100-B4L 4-Ch OMDF 100GHz Group B-Low (1540-1542 nm) | M9910E6A         |           |           |      |          |
|         |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm) | M99279F2         |           |           |      |          |
|         |            |                  | Access Panel                                           | NNTMRT1K1LHM     |           |           |      |          |
|         |            |                  | Fan                                                    | NNTMRT1K9K2R     |           |           |      |          |
| Juniper | MX204      | Router           | JNP204 [MX204]                                         | HK190            | Tipo 1(*) | 24x7x4    | UAHT | 31/12/26 |
|         |            |                  | JNP204 [MX204]                                         |                  |           |           |      |          |
|         |            |                  | QSFP-100GBASE-SR4                                      | NC2CY2G          |           |           |      |          |
|         |            |                  | QSFP-100GBASE-SR4                                      | NC2C0WH          |           |           |      |          |
|         |            |                  | QSFP-100GBASE-SR4                                      | NC2C0XL          |           |           |      |          |

|        |            |                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                   |                      |           |        |         |
|--------|------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|-----------|--------|---------|
|        |            |                  | JPSU-650W-AC-AO<br>JPSU-650W-AC-AO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO<br>Fan Tray, Front to Back Airflow - AFO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 1F18D170041<br>1F18D170104<br><br>En la fecha de licitación<br>No esta definido el hw                                                                                                                                                                                                                                             |                      |           |        |         |
| CIENA  | 6500-7slot | Equipo<br>Óptico | 2U AC RECTIFIER ASSY, 4X 2KW RECTIFIER MODULES, 3X 60A BREAKERS<br>6500-7 Packet-Optical Shelf Assembly<br>ESAM C-Band w/OSC 1xSFP 10/100 BT WSC<br>OC-3 0-34dB CWDM 1511 nm Low TX Power<br>MLA C-Band<br>4x10G OTR 4xXFP/4xSFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>MLA C-Band<br>SP-3<br>SP-3<br>Power Card 60A breakered<br>Power Card 60A breakered<br>Access Panel<br>Fan<br>6-Slot Passive Photonics Chassis (PPC6)<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)<br>CN-100-A4L 4-Ch OMDF 100GHz Group A-Low (1533-1535 nm)<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm) | N/A<br>NNTMRT11HJLP<br>NNTMRT1JXRMN<br>WTOTBE2505077319<br>NNTMRT1K4M23<br>NNTMRT1KRY1D<br>FNSRMYNDECGFN<br>FNSRMYNDFA52P<br>FNSRMY2247M022AU<br>FNSRMY2145M01GJ6<br>NNTMRT1K4M2E<br>NNTMRT1KLD26<br>NNTMRT1KNVF4<br>NNTMRT1KCFJW<br>NNTMRT1KCFKC<br>NNTMRT1KM70R<br>NNTMRT1JX95W<br>M9979B8C<br>M991B6E2<br>M9A2DF6E<br>M991B6CF | Tipo 2(*)            | N.A. (**) | UAHH   | 4/11/28 |
| MADQCI | MADQCI     | MADQCI           | MADQCI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MADQCI                                                                                                                                                                                                                                                                                                                            | MADQCI               | MADQCI    | MADQCI | MADQCI  |
| VIAVI  | OTU-5000   | OTDR             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                   | No entra al contrato | N.A.      | UCM    | 31/1/28 |

|         |            |        |                                                                                                                                                       |                                                                                              |                      |      |                |         |
|---------|------------|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------|------|----------------|---------|
| VIAVI   | OTU-5000   | OTDR   |                                                                                                                                                       |                                                                                              | No entra al contrato | N.A. | IMDEA Networks | 31/1/28 |
| VIAVI   | OTU-5000   | OTDR   |                                                                                                                                                       |                                                                                              | No entra al contrato | N.A. | IMDEA Software | 31/1/28 |
| Juniper | EX4100-24T | Switch | Chassis<br>SFPP-10G-SR-C<br>SFPP-10G-SR-C<br>AC PSU JPSU-150-AC-AFO                                                                                   | FD1625AX0438                                                                                 | No entra al contrato | N.A. | CSIC           | 31/1/28 |
| Juniper | EX4100-24T | Switch | Chassis<br>SFPP-10G-SR-C<br>SFPP-10G-SR-C<br>AC PSU JPSU-150-AC-AFO                                                                                   | FD1625AX0011                                                                                 | No entra al contrato | N.A. | UCM            | 31/1/28 |
| Juniper | EX4100-24T | Switch | Chassis<br>SFPP-10G-SR-C<br>SFPP-10G-SR-C<br>AC PSU JPSU-150-AC-AFO                                                                                   | FD1625AX0270                                                                                 | No entra al contrato | N.A. | UCM3PT         | 31/1/28 |
| Juniper | EX4100-24T | Switch | Chassis<br>SFPP-10G-SR-C<br>SFPP-10G-SR-C<br>AC PSU JPSU-150-AC-AFO                                                                                   | FD1625AX0268                                                                                 | No entra al contrato | N.A. | IMDEA Software | 31/1/28 |
| Juniper | EX4100-24T | Switch | Chassis<br>SFPP-10G-SR-C<br>SFPP-10G-SR-C<br>AC PSU JPSU-150-AC-AFO                                                                                   | FD1625AX0317                                                                                 | No entra al contrato | N.A. | IMDEA Networks | 31/1/28 |
|         |            |        | 6500-7 Packet-Optical Shelf Assembly<br>OSC w/WSC 2 Port SFP 2 Port 10/100 BT<br>SP-3<br>SP-3<br>Power Card 60A breakered<br>Power Card 60A breakered | NNTMRT143YPD<br>NNTMRT1HH964<br>NNTMRT1HPW4H<br>NNTMRT1HPWCC<br>NNTMRT1GMPGH<br>NNTMRT1GMP97 |                      |      |                |         |

|       |            |                  |                                                             |                  |                         |      |      |
|-------|------------|------------------|-------------------------------------------------------------|------------------|-------------------------|------|------|
| CIENA | 6500-7slot | Equipo<br>Óptico | OC-3 0-15dB CWDM 1511 nm                                    | WTOTBE2204080254 | No entra al<br>contrato | N.A. | CSIC |
|       |            |                  | MLA3 C-Band                                                 | NNTMRT1J9EK7     |                         |      |      |
|       |            |                  | WSS Flex C-Band w/OPM 9x1                                   | NNTMRT1HG7HJ     |                         |      |      |
|       |            |                  | 4x10G OTR 4xXFP/4xSFP+                                      | NNTMRT1HY5FG     |                         |      |      |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCGCFF1    |                         |      |      |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCGCGKQ    |                         |      |      |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2217M01TLZ |                         |      |      |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2230M01Y7J |                         |      |      |
|       |            |                  | 6-Slot Passive Photonics Chassis (PPC6)                     |                  |                         |      |      |
|       |            |                  | CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)          |                  |                         |      |      |
|       |            |                  | CN-100-B80 8-Ch OMDF 100GHz Group B (1537-1542 nm)          |                  |                         |      |      |
|       |            |                  | 2150 Passive Optical Multiplexer (3-Slot) Chassis           |                  |                         |      |      |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |      |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |      |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |      |
|       |            |                  | Access Panel                                                | NNTMRT1H96R3     |                         |      |      |
|       |            |                  | Fan                                                         | NNTMRT1HGPL0     |                         |      |      |
|       |            |                  | 6500-7 Packet-Optical Shelf Assembly                        | NNTMRT13HKC3     |                         |      |      |
|       |            |                  | OSC w/WSC 2 Port SFP 2 Port 10/100 BT                       | NNTMRT1HH956     |                         |      |      |
|       |            |                  | SP-3                                                        | NNTMRT1HPW91     |                         |      |      |
|       |            |                  | SP-3                                                        | NNTMRT1HPW87     |                         |      |      |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPGG     |                         |      |      |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPHM     |                         |      |      |
|       |            |                  | OC-3 0-15dB CWDM 1511 nm                                    | WTOTBE2204080332 |                         |      |      |
|       |            |                  | MLA3 C-Band                                                 | NNTMRT1JDEMY     |                         |      |      |
|       |            |                  | WSS Flex C-Band w/OPM 9x1                                   | NNTMRT1HJM02     |                         |      |      |
|       |            |                  | 4x10G OTR 4xXFP/4xSFP+                                      | NNTMRT1HFRK6     |                         |      |      |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCGCGKP    |                         |      |      |



|       |            |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                        |                      |      |                |  |
|-------|------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|------|----------------|--|
|       |            |               | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>6-Slot Passive Photonics Chassis (PPC6)<br>CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)<br>CN-BS5 Band Splitter 100GHz C-Band Groups A, B, C, D, E<br>Access Panel<br>Fan                                                                                                                                                                                                                                                                                                                                                                | FNSRMY2233M01ZNE<br>FNSRMY2233M01ZPK<br><br><br><br><br><br>NNTMRT1H6KME<br>NNTMRT1HHR7C                                                                                                                                                                                                                                                                               |                      |      |                |  |
| CIENA | 6500-7slot | Equipo Óptico | 6500-7 Packet-Optical Shelf Assembly<br>OSC w/WSC 2 Port SFP 2 Port 10/100 BT<br>SP-3<br>SP-3<br>Power Card 60A breakered<br>Power Card 60A breakered<br>OC-3 0-15dB CWDM 1511 nm<br>SLA C-Band<br>WSS Flex C-Band w/OPM 9x1<br>4x10G OTR 4xXFP/4xSFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>4x10G OTR 4xXFP/4xSFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+ | NNTMRT133X3E<br>NNTMRT1HH94L<br>NNTMRT1HPW9F<br>NNTMRT1HPVP9<br>NNTMRT1GMP6R<br>NNTMRT1GMPH2<br>WTOTBE2204080338<br>NNTMRT187K2T<br>NNTMRT1HG7HR<br>NNTMRT1J583D<br>FNSRMYNCEAV18<br>FNSRMYNCHA4NP<br>FNSRMYNCHA4P7<br>FNSRMYNCEAV81<br>FNSRMY2206M01MZ5<br>FNSRMY2231M01YFY<br>FNSRMY2241M0205G<br>FNSRMY2207M01NYJ<br>NNTMRT1HFRJW<br>FNSRMYNCEAV97<br>FNSRMYNCHA4MK | No entra al contrato | N.A. | IMDEA Software |  |

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                      |  |  |  |  |
|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  |  |  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>6-Slot Passive Photonics Chassis (PPC6)<br>CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)<br>CN-100-C80 8-Ch OMDF 100GHz Group C (1544-1550 nm)<br>BMD2 Broadband Mux/Demux 1x2<br>Access Panel<br>Fan                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | FNSRMY2218M01TZC<br>FNSRMY2218M01TZ4<br><br><br><br><br><br>NNTMRT1H96PP<br>NNTMRT1HH56W                                                                                                                                                                                                                             |  |  |  |  |
|  |  |  | 6500-7 Packet-Optical Shelf Assembly<br>OSC w/WSC 2 Port SFP 2 Port 10/100 BT<br>SP-3<br>SP-3<br>Power Card 60A breakerred<br>Power Card 60A breakerred<br>OC-3 0-15dB CWDM 1511 nm<br>MLA3 C-Band<br>WSS Flex C-Band w/OPM 9x1<br>4x10G OTR 4xXFP/4xSFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate, 850nm, MMF, SFP+<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>6-Slot Passive Photonics Chassis (PPC6)<br>CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)<br>CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm) | NNTMRT17LXC3<br>NNTMRT1HF8V9<br>NNTMRT1HPWC1<br>NNTMRT1HPW18<br>NNTMRT1GMPHC<br>NNTMRT1GMPEG<br>WTOTBE2204080288<br>NNTMRT1J946K<br>NNTMRT1HM9MX<br>NNTMRT1HWP65<br>FNSRMYNCEAV1R<br>FNSRMYNCGCGK1<br>FNSRMYNCGCGJZ<br>FNSRMYNCHA50C<br>FNSRMY2215M01SP5<br>FNSRMY2230M01XY7<br>FNSRMY2232M01Z29<br>FNSRMY2218M01TZD |  |  |  |  |

|       |            |                  |                                                             |                  |                         |      |        |
|-------|------------|------------------|-------------------------------------------------------------|------------------|-------------------------|------|--------|
| CIENA | 6500-7slot | Equipo<br>Óptico | CN-100-B80 8-Ch OMDF 100GHz Group B (1537-1542 nm)          | NNTMRT1H96PY     | No entra al<br>contrato | N.A. | UC3MPT |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      | NNTMRT1HH572     |                         |      |        |
|       |            |                  | Access Panel                                                | NNTMRT17R9XH     |                         |      |        |
|       |            |                  | Fan                                                         | NNTMRT1HH95M     |                         |      |        |
|       |            |                  | 6500-7 Packet-Optical Shelf Assembly                        | NNTMRT1HPW33     |                         |      |        |
|       |            |                  | OSC w/WSC 2 Port SFP 2 Port 10/100 BT                       | NNTMRT1HPW81     |                         |      |        |
|       |            |                  | SP-3                                                        | NNTMRT1GMP9V     |                         |      |        |
|       |            |                  | SP-3                                                        | NNTMRT1GMPED     |                         |      |        |
|       |            |                  | Power Card 60A breakered                                    | WTOTBE2204080356 |                         |      |        |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1JCNJC     |                         |      |        |
|       |            |                  | OC-3 0-15dB CWDM 1511 nm                                    | NNTMRT1HG7HP     |                         |      |        |
|       |            |                  | MLA3 C-Band                                                 | NNTMRT1J583E     |                         |      |        |
|       |            |                  | WSS Flex C-Band w/OPM 9x1                                   | FNSRMYNCHA4N0    |                         |      |        |
|       |            |                  | 4x10G OTR 4xXFP/4xSFP+                                      | FNSRMYNCEAV16    |                         |      |        |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMY2232M01Z2A |                         |      |        |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMY2228M01WZA |                         |      |        |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP |                  |                         |      |        |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP |                  |                         |      |        |
|       |            |                  | 6-Slot Passive Photonics Chassis (PPC6)                     |                  |                         |      |        |
|       |            |                  | CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)          |                  |                         |      |        |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |        |
|       |            |                  | CN-100-B80 8-Ch OMDF 100GHz Group B (1537-1542 nm)          |                  |                         |      |        |
|       |            |                  | Access Panel                                                | NNTMRT1H96R8     |                         |      |        |
|       |            |                  | Fan                                                         | NNTMRT1HH56K     |                         |      |        |
|       |            |                  | 6500-7 Packet-Optical Shelf Assembly                        | NNTMRT143YN5     |                         |      |        |
|       |            |                  | OSC w/WSC 2 Port SFP 2 Port 10/100 BT                       | NNTMRT1HH959     |                         |      |        |
|       |            |                  | SP-3                                                        | NNTMRT1J0LW7     |                         |      |        |
|       |            |                  | SP-3                                                        | NNTMRT1HPW30     |                         |      |        |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPGR     |                         |      |        |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPJE     |                         |      |        |

|  |  |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                          |  |  |  |  |
|--|--|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
|  |  |  | OC-3 0-15dB CWDM 1511 nm<br>SLA C-Band<br>WSS Flex C-Band w/OPM 9x1<br>4x10G OTR 8xXFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP<br>2150 Passive Optical Multiplexer (3-Slot) Chassis<br>CN-100-A80 8-Ch OMDf 100GHz Group A (1530-1535 nm)<br>CN-100-C4L 4-Ch OMDf 100GHz Group C-Low (1547-1550 nm)<br>6-Slot Passive Photonics Chassis (PPC6)<br>CN-100-A80 8-Ch OMDf 100GHz Group A (1530-1535 nm)<br>CN-BS5 Band Splitter 100GHz C-Band Groups A, B, C, D, E<br>CN-100-B80 8-Ch OMDf 100GHz Group B (1537-1542 nm)<br>BMD2 Broadband Mux/Demux 1x2<br>Access Panel<br>Fan | WTOTBE2204080291<br>NNTMRT187K10<br>NNTMRT1HJM24<br>NNTMRT1HFT9Y<br>FNSRMV2228M01X2H<br>FNSRMV2241M0206Q<br>FNSRMV2241M0205V<br>FNSRMV2241M02067<br>FNSRMV2203M01M2V<br>FNSRMV2241M02053 |  |  |  |  |
|  |  |  | 6500-7 Packet-Optical Shelf Assembly<br>OSC w/WSC 2 Port SFP 2 Port 10/100 BT<br>SP-3<br>SP-3<br>Power Card 60A breakerred<br>Power Card 60A breakerred<br>OC-3 0-15dB CWDM 1511 nm<br>MLA3 C-Band<br>WSS Flex C-Band w/OPM 9x1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | NNTMRT137P14<br>NNTMRT1HH96H<br>NNTMRT1HPW76<br>NNTMRT1HPW8F<br>NNTMRT1GMPHE<br>NNTMRT1GMPNH<br>WTOTBE2204080279<br>NNTMRT1J9EK8<br>NNTMRT1HJM0C                                         |  |  |  |  |

|       |            |                  |                                                             |                  |                         |      |     |
|-------|------------|------------------|-------------------------------------------------------------|------------------|-------------------------|------|-----|
| CIENA | 6500-7slot | Equipo<br>Óptico | 4x10G OTR 4xXFP/4xSFP+                                      | NNTMRT1J582N     | No entra al<br>contrato | N.A. | UCM |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCEAUVL    |                         |      |     |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCEAV51    |                         |      |     |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2216M01T3C |                         |      |     |
|       |            |                  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2218M01TZZ |                         |      |     |
|       |            |                  | 6-Slot Passive Photonics Chassis (PPC6)                     |                  |                         |      |     |
|       |            |                  | CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)          |                  |                         |      |     |
|       |            |                  | CN-100-B80 8-Ch OMDF 100GHz Group B (1537-1542 nm)          |                  |                         |      |     |
|       |            |                  | 2150 Passive Optical Multiplexer (3-Slot) Chassis           |                  |                         |      |     |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |     |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |     |
|       |            |                  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |                         |      |     |
|       |            |                  | Access Panel                                                | NNTMRT1H96R5     |                         |      |     |
|       |            |                  | Fan                                                         | NNTMRT1HD0NC     |                         |      |     |
|       |            |                  | 6500-7 Packet-Optical Shelf Assembly                        | NNTMRT137P49     |                         |      |     |
|       |            |                  | OSC w/WSC 2 Port SFP 2 Port 10/100 BT                       | NNTMRT1HH94Y     |                         |      |     |
|       |            |                  | SP-3                                                        | NNTMRT1HPW93     |                         |      |     |
|       |            |                  | SP-3                                                        | NNTMRT1HPW2D     |                         |      |     |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPEF     |                         |      |     |
|       |            |                  | Power Card 60A breakered                                    | NNTMRT1GMPHF     |                         |      |     |
|       |            |                  | OC-3 0-15dB CWDM 1511 nm                                    | WTOTBE2204080296 |                         |      |     |
|       |            |                  | MLA3 C-Band                                                 | NNTMRT1JDEMX     |                         |      |     |
|       |            |                  | WSS Flex C-Band w/OPM 9x1                                   | NNTMRT1HJM0J     |                         |      |     |
|       |            |                  | 4x10G OTR 4xXFP/4xSFP+                                      | NNTMRT1J582Y     |                         |      |     |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCHA4MZ    |                         |      |     |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCEAV1A    |                         |      |     |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCHA4N2    |                         |      |     |
|       |            |                  | Multirate, 850nm, MMF, SFP+                                 | FNSRMYNCHA4P2    |                         |      |     |

|  |  |                                                             |                  |  |  |  |  |
|--|--|-------------------------------------------------------------|------------------|--|--|--|--|
|  |  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2233M01ZNN |  |  |  |  |
|  |  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2241M02064 |  |  |  |  |
|  |  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2241M0207C |  |  |  |  |
|  |  | Multirate 1528.38 to 1568.77 (1 - 88) 50GHz Type 2 DWDM XFP | FNSRMY2241M0205Y |  |  |  |  |
|  |  | 6-Slot Passive Photonics Chassis (PPC6)                     |                  |  |  |  |  |
|  |  | CN-100-A80 8-Ch OMDF 100GHz Group A (1530-1535 nm)          |                  |  |  |  |  |
|  |  | CN-100-B80 8-Ch OMDF 100GHz Group B (1537-1542 nm)          |                  |  |  |  |  |
|  |  | 2150 Passive Optical Multiplexer (3-Slot) Chassis           |                  |  |  |  |  |
|  |  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |  |  |  |  |
|  |  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |  |  |  |  |
|  |  | CN-100-C4L 4-Ch OMDF 100GHz Group C-Low (1547-1550 nm)      |                  |  |  |  |  |
|  |  | Access Panel                                                | NNTMRT1GYCF6     |  |  |  |  |
|  |  | Fan                                                         | NNTMRT1HGPKR     |  |  |  |  |

| Fabricante | Modelo                                      | Tipo de equipo | Hardware                                                                               | Numero de Serie  | Tipo de contrato | Tipo de | Localización | Fin del soporte |
|------------|---------------------------------------------|----------------|----------------------------------------------------------------------------------------|------------------|------------------|---------|--------------|-----------------|
| CIENA      | Ampliación equipo 6500-14slot de CIEMAT UAM | Equipo Óptico  | MIDSTAGE LINE AMPLIFIER (MLA C-BAND) CIRCUIT PACK                                      | NNTMRT1K4M20     | Tipo 2 (*)       | N.A     | CIEMAT       | 4/11/28         |
|            |                                             |                | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                                      | NNTMRT1JD87D     |                  |         |              |                 |
|            |                                             |                | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                                      | NNTMRT1JD870     |                  |         |              |                 |
|            |                                             |                | 6-SLOT PASSIVE PHOTONICS CHASSIS (PPC6)                                                | M9979B90         |                  |         |              |                 |
|            |                                             |                | 2150 PASSIVE OPTICAL MULTIPLEXER (3-SLOT) CHASSIS                                      | NNTMRT1CDVDL     |                  |         |              |                 |
|            |                                             |                | CN-BS5 5 GROUP BANDSPLITTER-100GHZ                                                     | M9A1F7C2         |                  |         |              |                 |
|            |                                             |                | CN-100-B80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M99A79E1         |                  |         |              |                 |
|            |                                             |                | CN-100-C80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M9A1DA78         |                  |         |              |                 |
|            |                                             |                | CN-100-A80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M99E9A0C         |                  |         |              |                 |
|            |                                             |                | MULTIRATE, 850NM, MMF SFP+                                                             | FNSRMYNDECG51    |                  |         |              |                 |
|            |                                             |                | MULTI-RATE, FULL C-BAND TUNABLE, 50GHZ TYPE 2 DWDM XFP, WITH ENHANCED OSNR PERFORMANCE | FNSRMY2247M022AT |                  |         |              |                 |
|            |                                             |                | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                                      | AVAGCN2116FG00K3 |                  |         |              |                 |
|            |                                             |                | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                                      | AVAGCN2116FG00F1 |                  |         |              |                 |
| CIENA      | Ampliación equipo 6500-14slot de CIEMAT UCM | Equipo Óptico  | MIDSTAGE LINE AMPLIFIER (MLA C-BAND) CIRCUIT PACK                                      | NNTMRT1K4M27     | Tipo 2 (*)       | N.A     | CSIC         | 4/11/28         |
|            |                                             |                | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                                      | NNTMRT1JD86X     |                  |         |              |                 |
|            |                                             |                | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                                      | NNTMRT1JD86Y     |                  |         |              |                 |
|            |                                             |                | 6-SLOT PASSIVE PHOTONICS CHASSIS (PPC6)                                                | M9979B8D         |                  |         |              |                 |
|            |                                             |                | 2150 PASSIVE OPTICAL MULTIPLEXER (3-SLOT) CHASSIS                                      | NNTMRT1CDVD6     |                  |         |              |                 |
|            |                                             |                | CN-BS5 5 GROUP BANDSPLITTER-100GHZ                                                     | M9A1F7BC         |                  |         |              |                 |
|            |                                             |                | CN-100-B80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M99A0A6F         |                  |         |              |                 |
|            |                                             |                | CN-100-C80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M9A1DA7B         |                  |         |              |                 |
|            |                                             |                | CN-100-D80 8-CH 100 GHZ DWDM MODULE ASSY                                               | M990DD5E         |                  |         |              |                 |
|            |                                             |                | MULTIRATE, 850NM, MMF SFP+                                                             | FNSRMYNDECG9F    |                  |         |              |                 |
|            |                                             |                | MULTI-RATE, FULL C-BAND TUNABLE, 50GHZ TYPE 2 DWDM XFP, WITH ENHANCED OSNR PERFORMANCE | FNSRMY2148M01JGA |                  |         |              |                 |
|            |                                             |                | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                                      | AVAGCN2052FG009F |                  |         |              |                 |
|            |                                             |                | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                                      | AVAGCN2051FG00BN |                  |         |              |                 |
|            |                                             |                | MIDSTAGE LINE AMPLIFIER (MLA C-BAND) CIRCUIT PACK                                      | NNTMRT1K4M2F     |                  |         |              |                 |

|       |                                                     |                  |                                                                     |                  |            |     |     |         |
|-------|-----------------------------------------------------|------------------|---------------------------------------------------------------------|------------------|------------|-----|-----|---------|
| CIENA | Ampliación<br>equipo 6500-<br>14slot de<br>CSIC UCM | Equipo<br>Óptico | MIDSTAGE LINE AMPLIFIER (MLA C-BAND) CIRCUIT PACK                   | NNTMRT1K4M21     | Tipo 2 (*) | N.A | UAM | 4/11/28 |
|       |                                                     |                  | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                   | NNTMRT1JD86W     |            |     |     |         |
|       |                                                     |                  | 100G OTR WL3N BASIC C-BAND 1X QSFP28 CIRCUIT PACK                   | NNTMRT1JD86V     |            |     |     |         |
|       |                                                     |                  | ENHANCED SERVICE ACCESS MODULE (ESAM C-BAND) W/OSC 1X SFP           | NNTMRT1KPXPY     |            |     |     |         |
|       |                                                     |                  | 10/100 BT WSC CIRCUIT PACK                                          |                  |            |     |     |         |
|       |                                                     |                  | 2150 PASSIVE OPTICAL MULTIPLEXER (3-SLOT) CHASSIS                   | NNTMRT1C6NVX     |            |     |     |         |
|       |                                                     |                  | CN 2110-CHS-E3 - CN 2110 SHELF W/ETSI BRACKET FOR 300 MM            | N/A              |            |     |     |         |
|       |                                                     |                  | RACKS:BRACKETS CAN BE MOVED FOR 600 MM                              |                  |            |     |     |         |
|       |                                                     |                  | CN 2110-T0-60 - DCM MODULE TYPE 0-FOR 60 KM STD FIBER (G.652). HALF | M97361E9         |            |     |     |         |
|       |                                                     |                  | WIDTH                                                               |                  |            |     |     |         |
|       |                                                     |                  | CN-100-C4L 4-CH 100GHZ DWDM MODULE ASSY                             | M99279D6         |            |     |     |         |
|       |                                                     |                  | CN-100-D4L 4-CH 100GHZ DWDM MODULE ASSY                             | M9A07A9A         |            |     |     |         |
|       |                                                     |                  | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                   | AVAGCN2052FG0080 |            |     |     |         |
|       |                                                     |                  | 100GBASE-SR4, 4X25G, MMF, 850NM, 100M, MPO QSFP28                   | AVAGCN2102FG00E2 |            |     |     |         |

(\*)Descripción del TIPO en el **apartado 4.**

(\*\*) Equipamiento en licitación, pendiente de entrega.