



# Supported ROADMs, Add/Drop Cards, and Modules

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## Supported ROADMs, Add/Drop Cards, and Modules

Cisco ONP supports the following ROADM, Add/Drop cards and modules:

**Table 1: NCS 2000 ROADM Cards**

| Product            | Product Description   |
|--------------------|---|
| NCS2K-9-SMR34FS=   | 9-port Single Module ROADM - 20—34 dB Gain - Flex Spectrum            |
| NCS2K-9-SMR24FS=   | 9-port Single Module ROADM - 12—24 dB Gain - Flex Spectrum            |
| NCS2K-9-SMR17FS=   | 9-port Single Module ROADM - 0—17 dB Gain - Flex Spectrum             |
| NCS2K-20-SMRFS=    | 20-port Single Module ROADM - Switchable Gain Flex Spectrum           |
| NCS2K-20-SMRFS-CV= | 20-port SMR - Switch. Gain Flex Spectrum with Connection Verification |

**Table 2: NCS 2000 ADD/DROP Line Cards and Optical Passive Modules**

| Product            | Product Description   |
|--------------------|---|
| NCS2K-16-AD-CCOFS= | 4- to 12-degree 16-port Contentionless Add/Drop Unit              |
| NCS2K-MF-6AD-CFS=  | 6-port Colorless Flex Spectrum Add/Drop MF Unit                   |
| NCS2K-MF-MPO-16LC= | MPO-16 to 16xLC Fan-Out MF Unit with Integrated Monitoring        |
| NCS2K-MF-M16LC-CV= | MPO-16 to 16xLC Fan-Out with Connection Verification              |
| 15216-MD-48-ODD=   | ONS 15216 48-channel Mux/DeMux Exposed Faceplate Patch Panel Odd  |
| 15216-MD-48-EVEN=  | ONS 15216 48-channel Mux/DeMux Exposed Faceplate Patch Panel Even |
| 15216-MD-48-CM=    | ONS 15216 Mux/Demux Plugin Coupler/De-Interleaver Module          |

| Product        | Product Description                                  |
|----------------|--|
| NCS1K-MD-64-C= | NCS 1000 64-channel Odd Mux/Demux Patch Panel—C-band |

Table 3: NCS 2000 Controller Cards and Common Equipment

| Product           | Product Description   |
|-------------------|---|
| NCS2006-DC=       | NCS 2006 30A DC Power Filter                                  |
| NCS2006-AC=       | NCS 2006 1500W AC Power Supply                                |
| NCS2015-SA-DC=    | NCS 2015 Shelf Assembly - DC Power                            |
| NCS2015-SA-AC=    | NCS 2015 Shelf Assembly - AC Power                            |
| NCS2K-TNCS-2-K9=  | NCS 2000 Transport Node Controller, version 2                 |
| NCS2K-TNCS-2O-K9= | NCS2000 Transport Node Controller with 2x OTDR/OSC, version 2 |
| NCS2K-TNCS-K9=    | Transport Node Controller for NCS2002, 2006, and 2015 chassis |
| NCS2K-TNCS-O-K9=  | NCS 2000 Transport Node Controller with 2x OTDR/OSC           |
| NCS2K-SVO-K9=     | Shelf Virtualization Orchestrator - LC, Full                  |

Table 4: NCS 2000 Series Passive Optical Modules

| Product            | Product Description   |
|--------------------|---|
| NCS2K-MF-6RU=      | 6RU Mechanical Frame for Passive Units—14 slots with USB Hub    |
| NCS2K-MF10-6RU=    | 6RU Mechanical Frame for Passive Units—10 slots with USB Hub    |
| NCS2K-MF-1RU=      | 1RU Mechanical Frame—4 slots                                    |
| NCS2K-MF-UPG-4=    | 4-degree Upgrade Mesh Interconnection MF Unit                   |
| NCS2K-MF-UPG-4-CV= | 4-degree Upgrade Mesh Interconnect with Connection Verification |
| NCS2K-MF-DEG-5=    | Up to 5-degree Mesh Interconnection MF Unit                     |
| NCS2K-MF-DEG-5-CV= | 5-degree Mesh Interconnect with Connection Verification         |
| NCS2K-PPMESH8-5AD= | 2RU 8-degree Mesh Patch Panel—5-Add/Drop Port + Monitoring      |

Table 5: NCS 4000 Chassis and NCS 1004 Line Cards

| Product        | Product Description                |
|----------------|------------------------------------|
| NCS4016-SA-DC= | NCS 4016 shelf assembly - DC Power |
| NCS4016-SA-AC= | NCS 4016 shelf assembly - AC Power |
| NCS4009-SA-DC= | NCS 4009 shelf assembly - DC Power |

| Product           | Product Description                                  |
|-------------------|--|
| NCS4K-4H-OPW-QC2= | NCS 4000 400G Packet/OTN/WDM—QSFP28/CFP2 line card   |
| NCS4K-24LR-O-S=   | NCS 4000 24-port low rate OTN—SFP line card          |
| NCS1004=          | Network Convergence System 1004 four line card slots |

Table 6: NCS 1010 Line Cards, Chassis, and PSUs

| Product            | Product Description   |
|--------------------|---|
| NCS1K-OLT-C=       | NCS 1010 Optical Line Terminal—C-band                                 |
| NCS1K-OLT-L=       | NCS 1010 Optical Line Terminal—L-band                                 |
| NCS1K-OLT-R-C=     | NCS 1010 Optical Line Terminal with Raman—C-band                      |
| NCS1K-ILA-C=       | NCS 1010 In-Line Amplifier—C-band                                     |
| NCS1K-ILA-L=       | NCS 1010 In-Line Amplifier—L-band                                     |
| NCS1K-ILA-2R-C=    | NCS 1010 In-Line Amplifier with 2x Raman—C-band                       |
| NCS1K-ILA-R-C=     | NCS 1010 In-Line Amplifier with 1x Raman—C-band                       |
| NCS1010-SA=        | NCS 1010 Shelf Assembly   |
| NCS1010-DC-PSU=    | NCS 1010 DC Power Supply Unit   |
| NCS1010-AC-PSU=    | NCS 1010 AC Power Supply Unit   |
| NCS1K-E-OLT-C=     | NCS 1010 Optical Line Terminal—C-band, enhanced                       |
| NCS1K-E-OLT-R-C=   | NCS 1010 Optical Line Terminal with Raman—C-band, enhanced            |
| NCS1K-E-OLT-L=     | NCS 1010 Optical Line Terminal—L-band, enhanced                       |
| NCS1K-E-ILA-R-C=   | NCS 1010 In-Line Amplifier with 1x Raman—C-band, enhanced             |
| NCS1K-E-ILA-2R-C=  | NCS 1010 In-Line Amplifier with 2x Raman—C-band, enhanced             |
| NCS1K-E-ILA-R-C-2= | NCS 1010 In-Line Amplifier with 1x Raman west facing—C-band, enhanced |
| NCS1K14-2.4T-K9=   | NCS 1014 2.4T Line Card   |

Table 7: NCS 1010 Passive Modules

| Product       | Product Description  |
|---------------|--|
| NCS1K-BRK-SA= | NCS 1000 shelf for four passive modules                                |
| NCS1K-BRK-8=  | NCS 1000 MTP/MPO to 8-port passive breakout module                     |
| NCS1K-BRK-24= | NCS 1000 MTP/MPO to 24-port colorless channels passive breakout module |
| NCS1K-BRK-16= | NCS 1000 MTP/MPO to 16-port colorless channels passive breakout module |

| <b>Product</b>    | <b>Product Description</b>                                     |
|-------------------|--|
| NCS1K-MD-32O-C=   | NCS 1000 32-channel Odd Mux/Demux Patch Panel - 150GHz—C-band  |
| NCS1K-MD-32E-C=   | NCS 1000 32-channel Even Mux/Demux Patch Panel - 150GHz—C-band |
| NCS1K14-CCMD-16-C | NCS 1000 16-port Colorless Mux/Demux Optical Line Card—C-band  |
| NCS1K14-CCMD-16-L | NCS 1000 16-port Colorless Mux/Demux Optical Line Card—L-band  |