

Supported Amplifiers

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Supported Amplifiers

Cisco ONP supports the following amplifiers:

Table 1: Cisco ONP Supported NCS 2000 Amplifiers

Amplifier	Description
15454-M-RAMAN-CTP	Raman Amp C-Band
15454-M-RAMAN-COP	Raman Amp C-Band
EDFA 35 for OLA node	Erbium Doped Fiber Amplifier (EDFA) that can function in dual gain with maximum gain of 35 dB
NCS2K-EDRA2-26C	21dBm EDFA + Bst 26dB Span - C-Band
NCS2K-EDRA1-26C	21dBm EDFA 26dB Span - C-Band
NCS2K-EDRA2-35C	21dBm EDFA + Bst 35dB Span - C-Band
NCS2K-EDRA1-35C	21dBm EDFA35dB Span - C-Band

Note

- RAMAN-CTP is supported on all nodes.
- EDRAs are supported on the OLA node.
- For ROADM and Traffic nodes, the booster amplifier and preamplifier are in-built. The booster is 20SMR-FS-BST.

Table 2: Cisco ONP Supported NCS 1010 Amplifiers

Amplifier	Description		
	Lower Range Gain (dB)	Standard Range Gain (dB)	Tilt Uncontrolled Range Gain (dB)
C-Band			
OLT-C-Bst	16	24	31
OLT-C-Pre-Normal	12	22	25
OLT-C-Pre-Extended	17	32	35
ILA-C-Normal	8	17	20
ILA-C-Extended	13	30	33
ILA-R-C-Normal	8	17	23
ILA-R-C-Extended	13	30	36
ILA-2R-C-Normal	8	17	20
ILA-2R-C-Extended	13	30	33
E-ILA-R-C-Normal	8	17	20
E-ILA-R-C-Extended	13	30	33
E-ILA-2R-C-Normal	8	17	20
E-ILA-2R-C-Extended	13	30	33
E-ILA-C-R-2-Normal	8	17	20
E-ILA-C-R-2-Extended	13	30	33
L-Band			
OLT-L-Bst	17.5	25.5	32.5
OLT-L-Pre-Normal	13.3	23.3	26.3
OLT-L-Pre-Extended	18.3	36.3	39.3
ILA-L-Normal	10.8	19.8	22.8
ILA-L-Extended	15.8	32.8	35.8

Table 3: Cisco ONP Supported NCS 1001 Amplifiers

Amplifier	Description		
	Pre Amplifier Gain (dB)	Standard Range Gain (dB)	Tilt Uncontrolled Extended Range Gain (dB)
NCS1K-EDFA-Bst		1-20	20-25
NCS1K-EDFA-Pre - Range 1		0-24	24-27
NCS1K-EDFA-Pre - Range 2		20-34	34-27

Table 4: Cisco ONP Supported NCS 1014 Amplifiers

Amplifier	Description		
	Fixed Gain (dB)	Standard Range Gain (dB)	Tilt Uncontrolled Extended Range Gain (dB)
NCS1K14-EDFA2-Bst-1 - Range 1	8	-	-
NCS1K14-EDFA2-Bst-1 - Range 2	20	-	-
NCS1K14-EDFA2-Bst-2	-	12-24	24-27
NCS1K14-EDFA2-Pre - Range 1	-	0-25	25-28
NCS1K14-EDFA2-Pre - Range 2	-	20-26	36-29

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