

Network Extension Modules

Compatibility matrix





	SN710	SN910	SN2100	SN3100	SN6100	SNi40
Number of network modules	1	1	3	3	6	-
NA-EX-CARD-8xG-COP	•	•	•	•		
NA-SN6K1-EC-8xG-C					•	
NA-EX-CARD-4x10G-COP	•*	•*	•	•		
NA-SN6K1-EC-4x10G-C					•	
NA-EX-CARD-4xG-FIB	•	•				
NA-EX-CARD-8xG-FIB			•	•		
NA-SN6K1-EC-8xG-F					•	
NA-EX-CARD-2x10G-FIB	•	•				
NA-EX-CARD-4x10G-FIB	•	•				
NA-NW-CARD-4x10G-F			•	•		
NA-SN6K1-EC-4x10G-F					•	
NA-EX-CARD-2x40G-FIB			•	•		
NA-SN6K1-EC-2x40G-F					•	
NA-TRANS-SFP-SX	•	•	•	•	•	•
NA-TRANS-SFP-LX	•	•	•	•	•	•
NA-TRANS-DUALSFP-SR	•	•	•	•	•	
NA-TRANS-DUALSFP-LR	•	•	•	•	•	
NA-TRANS-QSFP40-SR			•	•	•	
NA-TRANS-QSFP40-LR			•	•	•	
NA-TRANS-SFP-COPPER	•	•	•	•	•	•

* : Requires firmware version 3.8 and upwards










Ordering information

	Warning	Reference
8 ports copper 10x100x1000 extension module		NA-EX-CARD-8xG-COP
8 ports copper 10x100x1000 extension module		NA-SN6K1-EC-8xG-C
4 ports copper 10GBASE-T extension module		NA-EX-CARD-4x10G-COP
4 ports copper 10GBASE-T extension module		NA-SN6K1-EC-4x10G-C
4 ports fiber Gigabit SFP extension module	Requires additional SFP transceiver	NA-EX-CARD-4xG-FIB
8 ports fiber Gigabit SFP extension module	Requires additional SFP transceiver	NA-EX-CARD-8xG-FIB
8 ports fiber Gigabit SFP extension module	Requires additional SFP transceiver	NA-SN6K1-EC-8xG-F
2 ports fiber 10 Gigabits SFP+ extension module	Requires additional dual speed SFP+ transceiver	NA-EX-CARD-2x10G-FIB
4 ports fiber 10 Gigabits SFP+ extension module	Requires additional dual speed SFP+ transceiver	NA-EX-CARD-4x10G-FIB
4 ports fiber 10 Gigabits SFP+ extension module	Requires additional dual speed SFP+ transceiver	NA-NW-CARD-4x10G-F
4 ports fiber 10 Gigabits SFP+ extension module	Requires additional dual speed SFP+ transceiver	NA-SN6K1-EC-4x10G-F
2 ports fiber 40 Gigabits QSFP+ extension module	Requires additional QSFP+ transceiver	NA-EX-CARD-2x40G-FIB
2 ports fiber 40 Gigabits QSFP+ extension module	Requires additional QSFP+ transceiver	NA-SN6K1-EC-2x40G-F
1 Fiber Gigabit SFP 1000Base-SX transceiver (short distance)		NA-TRANS-SFP-SX
1 Fiber Gigabit SFP 1000Base-LX transceiver (long distance)		NA-TRANS-SFP-LX
1 Fiber Dual Speed 1G/10Gigabit-SR/SX transceiver (short distance)		NA-TRANS-DUALSFP-SR
1 Fiber Dual Speed 1G/10Gigabit-LR/LX transceiver (long distance)		NA-TRANS-DUALSFP-LR
1 Fiber 40GBASE-LM4 QSFP+ transceiver (short distance)		NA-TRANS-QSFP40-SR
1 Fiber 40GBASE-LR4 QSFP+ transceiver (long distance)		NA-TRANS-QSFP40-LR
1 Copper 1000BASE-T transceiver, RJ45 over SFP		NA-TRANS-SFP-COPPER

Copper network modules

	 8x1GbE Copper Module	 8x1GbE Copper Module	 4x10GbE Copper module	 4x10GbE Copper module
Ports	8xRJ45	8xRJ45	4xRJ45	4xRJ45
Chipset	2xi350-AM4	2xi350-AM4	XL710-BM1 + X557-AT4	XL710-BM1 + X557-AT4
Bypass	N/A	N/A	N/A	N/A
Connection	PCIe switch Gen2 up to x8 PEX 8616	PCIe Gen2 2x4	PCIe Gen3 x8	PCIe Gen3 x8
MTBF at 40°C (years)	122.5	1,138.4	110.3	1,154.8
Reference	NA-EX-CARD-8xG-COP	NA-SN6K1-EC-8xG-C	NA-EX-CARD-4x10G-COP	NA-SN6K1-EC-4x10G-C

Fiber network modules

	 4x1GbE Fiber Module	 8x1GbE Fiber Module	 8x1GbE Fiber Module	 2x10GbE Fiber Module	 4x10GbE Fiber Module	 4x10GbE Fiber Module	 4x10GbE Fiber Module	 2x40GbE Fiber module	 2x40GbE Fiber module
Ports	4xSFP	8xSFP	8xSFP	2xSFP+	4xSFP+	4xSFP+	4xSFP+	2xQSFP+	2xQSFP+
Chipset	1xi350-AM4	2xi350-AM4	2xi350-AM4	82599ES	2 X 82599ES	XL710-BM1	XL710-AM2	XL710-BM2	XL710-AM2
Bypass	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Connection	PCIe Gen2 x4	PCIe switch Gen2 up to x8 PEX 8616	PCIe Gen2 2x4	PCIe Gen2 x8	PCIe Gen3 x8 PEX 8724	PCIe Gen3 x8	PCIe Gen3 x8	PCIe Gen3 x8	PCIe Gen3 x8
MTBF at 40°C (years)	257.3	90.2	1,065.5	279.5	70.5	122.7	1,317.1	165.1	1,326.0
Compatible transceivers	NA-TRANS-SPF-COPPER NA-TRANS-SFP-SX NA-TRANS-SFP-LX	NA-TRANS-SPF-COPPER NA-TRANS-SFP-SX NA-TRANS-SFP-LX	NA-TRANS-SPF-COPPER NA-TRANS-SFP-SX NA-TRANS-SFP-LX	NA-TRANS-DUALSFP-SR NA-TRANS-DUALSFP-LR	NA-TRANS-DUALSFP-SR NA-TRANS-DUALSFP-LR	NA-TRANS-DUALSFP-SR NA-TRANS-DUALSFP-LR	NA-TRANS-DUALSFP-SR NA-TRANS-DUALSFP-LR	NA-TRANS-QSFP40-SR NA-TRANS-QSFP40-LR	NA-TRANS-QSFP40-SR NA-TRANS-QSFP40-LR
Reference	NA-EX-CARD-4xG-FIB	NA-EX-CARD-8xG-FIB	NA-SN6K1-EC-8xG-F	NA-EX-CARD-2x10G-FIB	NA-EX-CARD-4x10G-FIB	NA-NW-CARD-4x10G-F	NA-SN6K1-EC-4x10G-F	NA-EX-CARD-2x40G-FIB	NA-SN6K1-EC-2x40G-F

Network transceivers

Protocol standard	1000Base-T	1000Base-SX	1000Base-LX	10GBase-SR / 1000Base-SX	10GBase-LR / 1000Base-LX	40GBASE-LM4	40GBASE-LR4
IEEE standard	802.3ab	802.3z	802.3z	802.3ae/802.3z	802.3ae/802.3z	802.3ba	802.3ba
Module type	SFP	SFP	SFP	SFP+	SFP+	QSFP+	QSFP+
Data link rate (Ethernet)	1Gbps	1Gbps	1Gbps	10/1Gbps	10/1Gbps	40Gbps	40Gbps
Transmission range	100m (category 5e)	300m(62.5/125µm), 500m(50/125µm)	10km(9/125µm)	300m(OM3), 400m(OM4)	10km	140m (OM3), 160m (OM4), 1km (SMF)	10km
Media	Copper	MMF	SMF	MMF	SMF	MMF/SMF	SMF
Wavelength	N/A	850nm	1,310nm	850nm	1,310nm	1,310nm	1,310nm
Connector type	RJ45	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power dissipation	1.05W	<500mW	<600mW	<1W	<1W	<3.5W	<3.5W
Operating temperature range	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F	-40 to 85°C -40 to 185°F	-5 to 70°C -23 to 158°F	-5 to 70°C -23 to 158°F	0 to 70°C 32 to 158°F	0 to 70°C 32 to 158°F
Hot plug	•	•	•	•	•	•	•
Auto negotiation	•	•	•	•	•	•	•
Link status	•	•	•	•	•	•	•
MTBF (years) @40°C	983	695.9	759.8	3,593.4	386.7	1,137.3	366.3
Reference	NA-TRANS-SFP-COPPER	NA-TRANS-SFP-SX	NA-TRANS-SFP-LX	NA-TRANS-DUALSFP-SR	NA-TRANS-DUALSFP-LR	NA-TRANS-QSFP40-SR	NA-TRANS-QSFP40-LR