



# STORMSHIELD

## STORMSHIELD NETWORK SECURITY

# 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-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			•	•	•	









## Ordering information

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

# Copper network modules

	 <b>8x1GbE Copper Module</b>	 <b>8x1GbE Copper Module</b>	 <b>4x10GbE Copper module</b>	 <b>4x10GbE Copper module</b>
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
<b>Reference</b>	<b>NA-EX-CARD-8xG-COP</b>	<b>NA-SN6K1-EC-8xG-C</b>	<b>NA-EX-CARD-4x10G-COP</b>	<b>NA-SN6K1-EC-4x10G-C</b>

# Fiber network modules

	 <b>4x1GbE Fiber Module</b>	 <b>8x1GbE Fiber Module</b>	 <b>8x1GbE Fiber Module</b>	 <b>2x10GbE Fiber Module</b>	 <b>4x10GbE Fiber Module</b>	 <b>4x10GbE Fiber Module</b>	 <b>2x40GbE Fiber module</b>	 <b>2x40GbE Fiber module</b>
Ports	4xSFP	8xSFP	8xSFP	2xSFP+	4xSFP+	4xSFP+	2xQSFP+	2xQSFP+
Chipset	1xi350-AM4	2xi350-AM4	2xi350-AM4	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
Connection	PCIe Gen2 x4	PCIe switch Gen2 up to x8  PEX 8616	PCIe Gen2 2x4	PCIe Gen2 x8	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	122.7	1,317.1	165.1	1,326.0
<b>Reference</b>	<b>NA-EX-CARD-4xG-FIB</b>	<b>NA-EX-CARD-8xG-FIB</b>	<b>NA-SN6K1-EC-8xG-F</b>	<b>NA-EX-CARD-2x10G-FIB</b>	<b>NA-NW-CARD-4x10G-F</b>	<b>NA-SN6K1-EC-4x10G-F</b>	<b>NA-EX-CARD-2x40G-FIB</b>	<b>NA-SN6K1-EC-2x40G-F</b>

# Network transceivers

Protocol standard	<b>1000Base-SX</b>	<b>1000Base-LX</b>	<b>10GBase-SR / 1000Base-SX</b>	<b>10GBase-LR / 1000Base-LX</b>	<b>40GBASE-LM4</b>	<b>40GBASE-LM4</b>
IEEE standard	802.3z	802.3z	802.3ae/802.3z	802.3ae/802.3z	802.3ba	802.3ba
Module type	SFP	SFP	SFP+	SFP+	QSFP+	QSFP+
Data link rate (Ethernet)	1Gbps	1Gbps	10/1Gbps	10/1Gbps	40Gbps	40Gbps
Transmission range	300m(62.5/125µm), 500m(50/125µm)	10km(9/125µm)	300m(OM3), 400m(OM4)	10km	140m (OM3), 160m (OM4), 1km (SMF)	10km
Media	MMF	SMF	MMF	SMF	MMF/SMF	SMF
Wavelength	850nm	1,310nm	850nm	1,310nm	1,310nm	1,310nm
Connector type	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Power dissipation	<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	-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) @25°C	695.9	759.8	3,593.4	386.7	1,137.3	366.3
<b>Reference</b>	<b>NA-TRANS-SFP-SX</b>	<b>NA-TRANS-SFP-LX</b>	<b>NA-TRANS-DUALSFP-SR</b>	<b>NA-TRANS-DUALSFP-LR</b>	<b>NA-TRANS-QSFP40-SR</b>	<b>NA-TRANS-QSFP40-LR</b>