



STORMSHIELD

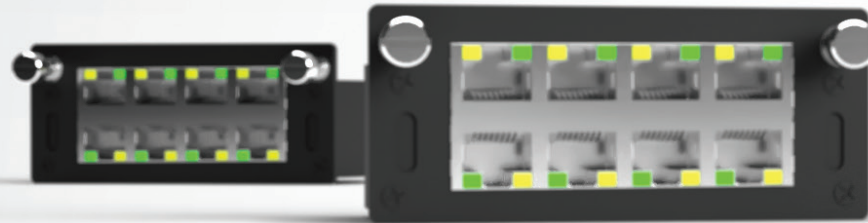
EXTENSION

Modules

Fiber

Copper

Transceivers



COMPATIBILITY MATRIX

EXTENSION MODULE		REFERENCE	SN-S-Series 220 / 320	SN710	SN910	SN-M-Series 520	SN-M-Series 720 / 920
Number of network extension modules			-	1	1	1	1
Fiber	25 Gigabits SFP28	2 ports	NA-EX-CARD-2x25G-F			•	•
Fiber	10 Gigabits SFP+	4 ports	NA-NW-CARD-4x10G-F	•	•	•	•
Fiber	10 Gigabits SFP+	2 ports	NA-EX-CARD-2x10G-FIB (End of Sales)	•	•		
Fiber	10 Gigabits SFP+	4 ports	NA-EX-CARD-4x10G-FIB (End of Sales)	•	•		
Fiber	1 Gigabit SFP	4 ports	NA-EX-CARD-4xG-FIB	•	•		
Fiber	1 Gigabit SFP	8 ports	NA-EX-CARD-8xG-FIB	•	•	•	•
Copper	10x100x1000	8 ports	NA-EX-CARD-8xG-COP	•	•	•	•
Copper	100x1000x2500	8 ports	NA-EX-CARD-8x2_5G-C	•	•	•	•
Copper	10GBASE-T	4 ports	NA-EX-CARD-4x10G-COP	•*	•*	•	•
Transceivers for onboard ports							
Fiber	1 Gigabit SFP 1000Base-SX	Short distance	NA-TRANS-SFP-SX	•	•	•	•
Fiber	1 Gigabit SFP 1000Base-LX	Long distance	NA-TRANS-SFP-LX	•	•	•	•
Fiber	1 Dual Speed 1G/10Gigabit-SR/SX SFP+	Short distance	NA-TRANS-DUALSFP-SR				•
Fiber	1 Dual Speed 1G/10Gigabit-LR/LX SFP+	Long distance	NA-TRANS-DUALSFP-LR				•
Copper	1 1000BASE-T, RJ45 over SFP		NA-TRANS-SFP-COPPER	•	•	•	•

EXTENSION MODULE Number of network extension modules			REFERENCE	SN1100 2	SN2100 / SN3100 3	SN-L-Series 3	SN6100 8	SN-XL-Series 8	SNi40 / SNi20 -
Fiber	100 Gigabits QSFP28	2 ports	NC-1-2x100G-QSFP28 *			•		•	
Fiber	40 Gigabits QSFP+	2 ports	NA-EX-CARD-2x40G-FIB		•				
Fiber	40 Gigabits QSFP+	2 ports	NC-1-2x40G-QSFP-P			•		•	
Fiber	40 Gigabits QSFP+	2 ports	NA-SN6K1-EC-2x40G-F				•		
Fiber	25 Gigabits SFP28	4 ports	NC-1-4x25G-SFP28 *			•		•	
Fiber	25 Gigabits SFP28	2 ports	NA-EX-CARD-2x25G-F **	•	•				
Fiber	10 Gigabits SFP+	8 ports	NC-1-8x10G-F-SFP-P *			•		•	
Fiber	10 Gigabits SFP+	4 ports	NA-NW-CARD-4x10G-F	•	•				
Fiber	10 Gigabits SFP+	4 ports	NC-1-4x10G-F-SFP-P			•		•	
Fiber	10 Gigabits SFP+	4 ports	NA-SN6K1-EC-4x10G-F				•		
Fiber	1 Gigabit SFP	8 ports	NA-EX-CARD-8xG-FIB	•	•				
Fiber	1 Gigabit SFP	8 ports	NC-1-8xG-FIB-SFP			•		•	
Fiber	1 Gigabit SFP	8 ports	NA-SN6K1-EC-8xG-F				•		
Copper	100x1000x2500	8 ports	NA-EX-CARD-8x2_5G-C	•***	•				
Copper	100x1000x2500	8 ports	NC-1-8x2_5G-C			•		•	
Copper	10x100x1000	8 ports	NA-EX-CARD-8xG-COP	•	•				
Copper	10x100x1000	8 ports	NA-SN6K1-EC-8xG-C				•		
Copper	10GBASE-T	4 ports	NA-EX-CARD-4x10G-COP	•	•				
Copper	10GBASE-T	4 ports	NC-1-4x10G-COP			•		•	
Copper	10GBASE-T	4 ports	NA-SN6K1-EC-4x10G-C				•		
Transceivers for onboard ports									
Fiber	1 Fiber Gigabit SFP 1000Base-SX	Short distance	NA-TRANS-SFP-SX	•					•
Fiber	1 Fiber Gigabit SFP 1000Base-LX	Long distance	NA-TRANS-SFP-LX	•					•
Fiber	1 Fiber Dual Speed 1G/10Gigabit-SR/SX SFP+	Short distance	NA-TRANS-DUALSFP-SR	•			•		
Fiber	1 Fiber Dual Speed 1G/10Gigabit-LR/LX SFP+	Long distance	NA-TRANS-DUALSFP-LR	•			•		
Fiber	1 Fiber 100 Gigabit-SR4 QSFP28 transceiver	Short distance	NA-TRANS-QSFP28-SR4			•		•	
Fiber	1 Fiber 100 Gigabit-LR4 QSFP28 transceiver	Long distance	NA-TRANS-QSFP28-LR4			•		•	
Copper	1 Copper 1000BASE-T, RJ45 over SFP		NA-TRANS-SFP-COPPER	•					•

FIBER

NETWORK MODULES

1GbE

	8x1GbE Fiber Module	8x1GbE Fiber Module	8x1GbE Fiber Module
REFERENCE	NC-1-8xG-FIB-SFP	NA-EX-CARD-8xG-FIB	NA-SN6K1-EC-8xG-F
PORTS	8xSFP	8xSFP	8xSFP
CHIPSET	2xi350-AM4	2xi350-AM4	2xi350-AM4
BYPASS	N/A	N/A	N/A
CONNECTION	PCIe switch Gen2 up to x8	PCIe switch Gen2 up to x8	PCIe Gen2 2x4
	ASM1824	PEX 8616	
MTBF AT 25°C (YEARS)	934.4	90.2	1,065.5
COMPATIBLE TRANSCEIVERS	NA-TRANS- SFP-COPPER	NA-TRANS- SFP-COPPER	NA-TRANS- SFP-COPPER
	NA-TRANS- SFP-SX	NA-TRANS- SFP-SX	NA-TRANS- SFP-SX
	NA-TRANS- SFP-LX	NA-TRANS- SFP-LX	NA-TRANS- SFP-LX

10GbE

	8x10GbE Fiber Module	4x10GbE Fiber Module	4x10GbE Fiber Module	4x10GbE Fiber Module
REFERENCE	NC-1-8x10G-F-SFP-P	NC-1-4x10G-F-SFP-P	NA-NW-CARD-4x10G-F	NA-SN6K1-EC-4x10G-F
PORTS	8xSFP+	4xSFP+	4xSFP+	4xSFP+
CHIPSET	E810-CAM2	XL710-BM1	XL710-BM1	XL710-AM1
BYPASS	N/A	N/A	N/A	N/A
CONNECTION	PCIe Gen4 up to x8	PCIe switch Gen2 up to x8	PCIe Gen3 x8	PCIe Gen3 x8
MTBF AT 25°C (YEARS)	1,332.1	1,186.2	122.7	1,317.1
COMPATIBLE TRANSCEIVERS		NA-TRANS- SFP-COPPER	NA-TRANS-SFP-COPPER (1000BASE-T only)	
		NA-TRANS- SFP-SX	NA-TRANS- SFP-SX	
		NA-TRANS- SFP-LX	NA-TRANS- SFP-LX	
	NA-TRANS-DUAL SFP-SR	NA-TRANS- DUALSFP-SR	NA-TRANS- DUALSFP-SR	NA-TRANS- DUALSFP-SR
	NA-TRANS-DUAL SFP-LR	NA-TRANS- DUALSFP-LR	NA-TRANS- DUALSFP-LR	NA-TRANS- DUALSFP-LR
	NA-TRANS-SFP10G-SR	NA-TRANS-SFP10G-SR	NA-TRANS-SFP10G-SR	NA-TRANS-SFP10G-SR
	NA-TRANS-SFP10G-LR	NA-TRANS-SFP10G-LR	NA-TRANS-SFP10G-LR	NA-TRANS-SFP10G-LR

FIBER NETWORK MODULES

25GbE

	2x25GbE Fiber module	4x25GbE Fiber Module
REFERENCE	NA-EX-CARD-2x25G-F	NC-1-4x25G-SFP28
PORTS	2xSFP28	4xSFP28
CHIPSET	XXV710-AM2	E810-CAM2
BYPASS	N/A	N/A
CONNECTION	PCIe Gen3 x8	PCIe Gen4 up to x8
MTBF AT 25°C (YEARS)	1,004.3	1,315.8
COMPATIBLE TRANSCEIVERS	NA-TRANS- SFP28-SR NA-TRANS- SFP28-LR	NA-TRANS- SFP28-SR NA-TRANS- SFP28-LR

40GbE

	2x40GbE Fiber module	2x40GbE Fiber module	2x40GbE Fiber module
REFERENCE	NC-1-2x40G-QSFP-P	NA-EX-CARD-2x40G-FIB	NA-SN6K1-EC-2x40G-F
PORTS	2xQSFP+	2xQSFP+	2xQSFP+
CHIPSET	XL710-BM2	XL710-BM2	XL710-AM2
BYPASS	N/A	N/A	N/A
CONNECTION	PCIe Gen3 up to x8	PCIe Gen3 x8	PCIe Gen3 x8
MTBF AT 25°C (YEARS)	1,029.4	165.1	1,326.0
COMPATIBLE TRANSCEIVERS	NA-TRANS- QSFP40-MSR NA-TRANS- QSFP40-LR	NA-TRANS- QSFP40-MSR NA-TRANS- QSFP40-LR	NA-TRANS- QSFP40-MSR NA-TRANS- QSFP40-LR

100GbE

	2x100GbE Fiber module
REFERENCE	NC-1-2x100G-QSFP28
PORTS	2xQSFP28
CHIPSET	E810-CAM2
BYPASS	N/A
CONNECTION	PCIe Gen4 x8
MTBF AT 25°C (YEARS)	1,485.7
COMPATIBLE TRANSCEIVERS	NA-TRANS- QSFP28-SR4 NA-TRANS- QSFP28-LR4

COPPER

NETWORK MODULES

1GbE

	8x1GbE Copper Module	8x1GbE Copper Module	8x1GbE Copper Module (4 bypass pairs)
REFERENCE	NA-EX-CARD-8xG-COP	NA-SN6K1-EC-8xG-C	NA-EX-CARD-BP-8xG-C
PORTS	8xRJ45	8xRJ45	8xRJ45
CHIPSET	2xi350-AM4	2xi350-AM4	2xi350-AM4
BYPASS	N/A	N/A	4 pairs
CONNECTION	PCIe switch Gen2 up to x8 PEX 8616	PCIe Gen2 2x4	PCIe Gen2 x4x4
MTBF AT 25°C (YEARS)	122.5	1,138.4	563.3

2.5GbE

	8x2.5GbE Copper Module	8x2.5GbE Copper Module
REFERENCE	NA-EX-CARD-8x2_5G-C	NC-1-8x2_5G-C
PORTS	8xRJ45	8xRJ45
CHIPSET	8xi226-LM	8x i226-LM
BYPASS	N/A	N/A
CONNECTION	PCIe switch Gen2 up to x8 ASM1824	PCIe switch Gen3 up to x8 ASM2824
MTBF AT 25°C (YEARS)	1,448.6	813.1

10GbE

	4x10GbE Copper module	4x10GbE Copper module	4x10GbE Copper module
REFERENCE	NA-EX-CARD-4x10G-COP	NC-1-4x10G-COP	NA-SN6K1-EC-4x10G-C
PORTS	4xRJ45	4xRJ45	4xRJ45
CHIPSET	XL710-BM1 + X557-AT4	2x X710-AT2	XL710-BM1 + X557-AT4
BYPASS	N/A	N/A	N/A
CONNECTION	PCIe Gen3 x8	PCIe switch Gen3 up to x8 ASM2824	PCIe Gen3 x8
MTBF AT 25°C (YEARS)	110.3	667.8	1,154.8

NETWORK TRANSCEIVERS

PROTOCOL STANDARD	1000Base-T	1000Base-SX	1000Base-LX	10GBase-SR / 1000Base-SX	10GBase-LR / 1000Base-LX	10GBase-SR	10GBase-LR	10G/25GBase-SR	10G/25GBase-LR	40GBASE-SR4	40GBASE-LR4	100GBASE-SR4	100GBASE-LR4
REFERENCE	NA-TRANS-SFP-COPPER	NA-TRANS-SFP-SX	NA-TRANS-SFP-LX	NA-TRANS-DUALSFP-SR	NA-TRANS-DUALSFP-LR	NA-TRANS-SFP10G-SR	NA-TRANS-SFP10G-LR	NA-TRANS-SFP28-SR	NA-TRANS-SFP28-LR	NA-TRANS-QSFP40-MSR	NA-TRANS-QSFP40-LR	NA-TRANS-QSFP28-SR4	NA-TRANS-QSFP28-LR4
IEEE STANDARD	802.3ab	802.3z	802.3z	802.3ae/802.3z	802.3ae/802.3z	802.3ae	802.3ae	802.3ae/802.3by	802.3cc	802.3ba	802.3ba	802.3bm	802.3ba
MODULE TYPE	SFP	SFP	SFP	SFP+	SFP+	SFP+	SFP+	SFP28	SFP28	QSFP+	QSFP+	QSFP28	QSFP28
DATA LINK RATE (ETHERNET)	1 Gbps	1 Gbps	1 Gbps	10/1 Gbps	10/1 Gbps	10 Gbps	10 Gbps	10/25Gbps	10/25Gbps	40Gbps	40Gbps	100Gbps	100Gbps
TRANSMISSION RANGE	100m (category 5e)	300m (62.5/125µm), 500m (50/125µm)	10km (9/125µm)	300m (OM3), 400m (OM4)	10km	300m (OM3), 400m (OM4)	10km	100m(OM3/OM4)	10 km	100m (OM3), 150m (OM4)	10 km	70m (OM3), 100 m (OM4)	10 km
MEDIA	Copper	MMF	SMF	MMF	SMF	MMF	SMF	MMF	SMF	MMF	SMF	MMF	SMF
WAVELENGTH	N/A	850nm	1,310nm	850nm	1,310nm	850nm	1,310nm	850nm	1,310nm	850nm	1,310nm	850nm	1,310nm
CONNECTOR TYPE	RJ45	Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC (PC/UPC or APC)	Duplex LC (PC/UPC or APC)	Duplex LC (PC/UPC or APC)	Duplex LC (PC/UPC or APC)	Single 1x12 MPO	Duplex LC	Single 1x12 MPO - Type-B	Duplex LC (PC/UPC or APC)
POWER DISSIPATION	1.05W	<500mW	<600mW	<1W	<1W	<1W	<1W	1.2W	1.5W	<1.5W	<3.5W	<2.5W	<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)	-40 to 85°C (-40 to 185°F)	-40 to 85°C (-40 to 185°F)	0 to 70°C (32 to 158°F)	0 to 85°C (32 to 185°F)	0 to 70°C (32 to 158°F)	0 to 70°C (32 to 158°F)	0 to 85°C (32 to 185°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	-	-	744.1	440.1	536.2	366.3	604.6	1984.9

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