

N-Series Cumulus Linux Switches Transceiver Modules Guide



Supported transceivers and cables information

The following tables list supported SFP, SFP+, SFP28, QSFP+, QSFP28 transceivers, DAC and AOC cables for N-series Cumulus Linux switches. They were tested by FS technicians to ensure compatibility.

Supported Transceivers and Cables		
N5850-48S6Q		
1GE SFP Transceivers		
FS P/N	ID	Description
SFP-GB-GE-T	20036	10/100/1000BASE-T SFP Copper RJ-45 100m Transceiver
	20057	1000BASE-T SFP Copper RJ-45 100m Transceiver Module
SFP1G-SX-85	29838	1000BASE-SX SFP 850nm 550m DOM Transceiver Module
SFP1G-LX-31	29849	1000BASE-LX/LH SFP 1310nm 10km DOM Transceiver Module
SFP1G-SX-31-2km	29848	1000BASE-SX SFP 1310nm 2km DOM Transceiver Module
SFP1G-LH-31	29853	1000BASE-EX SFP 1310nm 40km DOM Transceiver Module
SFP1G-EX-55	29854	1000BASE-EX SFP 1550nm 40km DOM Transceiver Module
SFP1G-ZX-55	29856	1000BASE-ZX SFP 1550nm 80km DOM Transceiver Module
SFP-GE-BX20	20184	1000BASE-BX BiDi SFP 1310nm-TX/1490nm-RX 20km DOM Transceiver Module
	20185	1000BASE-BX BiDi SFP 1490nm-TX/1310nm-RX 20km DOM Transceiver Module

Supported Transceivers and Cables

N5850-48S6Q

1GE SFP Transceivers

FS P/N	ID	Description
SFP-GE-BX20	20140	1000BASE-BX BiDi SFP 1310nm-TX/1550nm-RX 20km DOM Transceiver Module
	20141	1000BASE-BX BiDi SFP 1550nm-TX/1310nm-RX 20km DOM Transceiver Module
SFP-GE-BX40	20188	1000BASE-BX BiDi SFP 1310nm-TX/1490nm-RX 40km DOM Transceiver Module
	20189	1000BASE-BX BiDi SFP 1490nm-TX/1310nm-RX 40km DOM Transceiver Module
	20145	1000BASE-BX BiDi SFP 1310nm-TX/1550nm-RX 40km DOM Transceiver Module
	20146	1000BASE-BX BiDi SFP 1550nm-TX/1310nm-RX 40km DOM Transceiver Module
SFP-GE-BX80	20190	1000BASE-BX BiDi SFP 1490nm-TX/1550nm-RX 80km DOM Transceiver Module
	20139	1000BASE-BX BiDi SFP 1550nm-TX/1490nm-RX 80km DOM Transceiver Module

10GE SFP+ Transceivers & Cables

FS P/N	ID	Description
SFP-10G-T	66612	10GBASE-T SFP+ Copper RJ-45 30m Transceiver Module
SFP-10GSR-85	11589	10GBASE-SR SFP+ 850nm 300m DOM Transceiver Module
	29899	Dual-Rate 1000BASE-SX and 10GBASE-SR SFP+ 850nm 300m DOM Transceiver Module
SFP-10GLR-31	11591	10GBASE-LR SFP+ 1310nm 10km DOM Transceiver Module
	29901	Dual-Rate 1000BASE-LX and 10GBASE-LR SFP+ 1310nm 10km DOM Transceiver Module
SFP-10GER-55	11592	10GBASE-ER SFP+ 1550nm 40km DOM Transceiver Module
SFP-10GZR-55	11595	10GBASE-ZR SFP+ 1550nm 80km DOM Transceiver Module
SFP-10G-BX	11603	10GBASE-BX BiDi SFP+ 1270nm-TX/1330nm-RX 10km DOM Transceiver Module
	11624	10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 10km DOM Transceiver Module
SFP-10G-BX40	17235	10GBASE-BX BiDi SFP+ 1270nm-TX/1330nm-RX 40km DOM Transceiver Module
	12737	10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 40km DOM Transceiver Module
SFP-10G-BX60	13172	10GBASE-BX BiDi SFP+ 1270nm-TX/1330nm-RX 60km DOM Transceiver Module
	13173	10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 60km DOM Transceiver Module
SFP-10G-BX80	31028	10GBASE-BX BiDi SFP+ 1270nm-TX/1330nm-RX 80km DOM Transceiver Module
	31029	10GBASE-BX BiDi SFP+ 1330nm-TX/1270nm-RX 80km DOM Transceiver Module
SFP-10G-DAC-0.5	21269	0.5m (2ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG

Supported Transceivers and Cables

N5850-48S6Q

10GE SFP+ Transceivers & Cables

FS P/N	ID	Description
SFP-10G-DAC-1	21254	1m (3ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG
	21309	1m (3ft) 10G SFP+ Active Direct Attach Copper Twinax Cable
SFP-10G-DAC-1.5	39781	1.5m (5ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG
SFP-10G-DAC-2	21278	2m (7ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG
	30769	2m (7ft) 10G SFP+ Active Direct Attach Copper Twinax Cable 24AWG
SFP-10G-DAC-2.5	48914	2.5m (8ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG
SFP-10G-DAC-3	35194	3m (10ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 30AWG
	30771	3m (10ft) 10G SFP+ Active Direct Attach Copper Twinax Cable 30AWG
SFP-10G-DAC-5	30760	5m (16ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 24AWG
	30535	5m (16ft) 10G SFP+ Active Direct Attach Copper Twinax Cable 30AWG
SFP-10G-DAC-6	30762	6m (20ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 24AWG
SFP-10G-DAC-7	30763	7m (23ft) 10G SFP+ Passive Direct Attach Copper Twinax Cable 24AWG
	30743	7m (23ft) 10G SFP+ Active Direct Attach Copper Twinax Cable 28AWG
SFP-10G-DAC-10	30778	10m (33ft) 10G SFP+ Active Direct Attach Copper Twinax Cable 28AWG
SFP-10G-AOC-1	24982	1m (3ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-2	48588	2m (7ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-3	24983	3m (10ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-10	30542	10m (33ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-15	48591	15m (49ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-20	39683	20m (66ft) 10G SFP+ Active Optical Cable
SFP-10G-AOC-30	48593	30m (98ft) 10G SFP+ Active Optical Cable

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-SR4-40G	17931	40GBASE-SR4 QSFP+ 850nm 150m MTP/MPO Transceiver Module
QSFP-BD-40G	48721	40GBASE-SR Bi-Directional Duplex LC Transceiver Module
QSFP-CSR4-40G	34912	40GBASE-CSR4 QSFP+ 850nm 400m MTP/MPO Transceiver Module
QSFP-LX4-40G	35205	40GBASE-LX4 QSFP+ 1310nm 2km LC Transceiver Module

Supported Transceivers and Cables

N5850-48S6Q

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-IR4-40G	34913	40GBASE-LR4L QSFP+ 1310nm 2km LC Transceiver Module
QSFP-PLR4-40G	35209	40GBASE-PLR4 QSFP+ 1310nm 10km MTP/MPO Transceiver Module
QSFP-LR4-40G	24422	40GBASE-LR4 and OTU3 QSFP+ 1310nm 10km LC Transceiver Module
QSFP-40G-DAC-1	30763	1m (3ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-2	30778	2m (7ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-3	30795	3m (10ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-4	39695	4m (13ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-5	39696	5m (16ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-6	49609	6m (20ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-7	48974	7m (23ft) 40G QSFP+ Passive Direct Attach Copper Cable
	30808	7m (23ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-4SFP10G-DAC-1	21408	1m (3ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-2	21409	2m (7ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-5	21410	5m (16ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-40G-AOC-1	48552	1m (3ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-2	48553	2m (7ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-3	48554	3m (10ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-5	39256	5m (16ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-7	48555	7m (23ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-10	30753	10m (33ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-15	39260	15m (49ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-20	21674	20m (66ft) 40G QSFP+ Active Optical Cable
QSFP-8X-AOC-5	30831	5m (16ft) 40G QSFP+ to 4 Duplex LC Breakout Active Optical Cable
QSFP-8X-AOC-10	30836	10m (33ft) 40G QSFP+ to 4 Duplex LC Breakout Active Optical Cable
QSFP-4SFP10G-AOC-7	30824	7m (23ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-10	30827	10m (33ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-15	48657	15m (49ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-20	39689	20m (66ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable

Supported Transceivers and Cables

N8500-48B6C

25GE SFP28 Transceivers & Cables

FS P/N	ID	Description
SFP28-25GSR-85	67973	25G SFP28 850nm 100m DOM Transceiver Module
SFP28-25GLR-31	70384	25G SFP28 1310nm 10km DOM Transceiver Module
QSFP28-25G-DAC-1	47087	1m (3ft) 25G SFP28 Passive Direct Attach Copper Twinax Cable
QSFP28-25G-DAC-5	47091	5m (16ft) 25G SFP28 Passive Direct Attach Copper Twinax Cable

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-SR4-40G	17931	40GBASE-SR4 QSFP+ 850nm 150m MTP/MPO Transceiver Module
QSFP-BD-40G	48721	40GBASE-SR Bi-Directional Duplex LC Transceiver Module
QSFP-CSR4-40G	34912	40GBASE-CSR4 QSFP+ 850nm 400m MTP/MPO Transceiver Module
QSFP-LX4-40G	35205	40GBASE-LX4 QSFP+ 1310nm 2km LC Transceiver Module
QSFP-IR4-40G	34913	40GBASE-LR4L QSFP+ 1310nm 2km LC Transceiver Module
QSFP-PLR4-40G	35209	40GBASE-PLR4 QSFP+ 1310nm 10km MTP/MPO Transceiver Module
QSFP-LR4-40G	24422	40GBASE-LR4 and OTU3 QSFP+ 1310nm 10km LC Transceiver Module
QSFP-40G-DAC-1	30763	1m (3ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-2	30778	2m (7ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-3	30795	3m (10ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-4	39695	4m (13ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-5	39696	5m (16ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-6	49609	6m (20ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-7	48974	7m (23ft) 40G QSFP+ Passive Direct Attach Copper Cable
	30808	7m (23ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-4SFP10G-DAC-2	21409	2m (7ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-5	21410	5m (16ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-40G-AOC-1	48552	1m (3ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-2	48553	2m (7ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-3	48554	3m (10ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-5	39256	5m (16ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-7	48555	7m (23ft) 40G QSFP+ Active Optical Cable

Supported Transceivers and Cables

N8500-48B6C

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-40G-AOC-10	30753	10m (33ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-15	39260	15m (49ft) 40G QSFP+ Active Optical Cable
QSFP-40G-AOC-20	21674	20m (66ft) 40G QSFP+ Active Optical Cable
QSFP-8X-AOC-5	30831	5m (16ft) 40G QSFP+ to 4 Duplex LC Breakout Active Optical Cable
QSFP-8X-AOC-10	30836	10m (33ft) 40G QSFP+ to 4 Duplex LC Breakout Active Optical Cable
QSFP-4SFP10G-AOC-7	30824	7m (23ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-10	30827	10m (33ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-15	48657	15m (49ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable
QSFP-4SFP10G-AOC-20	39689	20m (66ft) 40G QSFP+ to 4x10G SFP+ Breakout Active Optical Cable

100GE QSFP28 Transceivers & Cables

FS P/N	ID	Description
QSFP28-SR4-100G	35182	100GBASE-SR4 QSFP28 850nm 100m DOM Transceiver Module
QSFP28-LR4-100G	39025	100GBASE-LR4 QSFP28 1310nm 10km DOM Transceiver Module
QSFP28-100G-DAC-1	47096	1m (3ft) 100G QSFP28 Passive Direct Attach Copper Twinax Cable
QSFP28-100G-DAC-2	65897	2m (7ft) 100G QSFP28 Passive Direct Attach Copper Twinax Cable
QSFP28-100G-AOC-2	50168	2m (7ft) 100G QSFP28 Active Optical Cable
QSFP28-100G-AOC-3	50170	3m (10ft) 100G QSFP28 Active Optical Cable
QSFP28-100G-AOC-5	50171	5m (16ft) 100G QSFP28 Active Optical Cable
QSFP28-4x25G-DAC-2	47093	2m (7ft) 100G QSFP28 to 4x25G SFP28 Passive Direct Attach Copper Breakout Cable
QSFP28-4x25G-DAC-3	47094	3m (10ft) 100G QSFP28 to 4x25G SFP28 Passive Direct Attach Copper Breakout Cable

N8000-32Q

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-BD-40G	48721	40GBASE-SR Bi-Directional Duplex LC Transceiver Module
QSFP-40G-DAC-1	30960	1m (3ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-2	30794	2m (7ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-3	30795	3m (10ft) 40G QSFP+ Passive Direct Attach Copper Cable

Supported Transceivers and Cables

N8000-32Q

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-40G-DAC-4	39695	4m (13ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-5	39696	5m (16ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-6	49609	6m (20ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-7	48974	7m (23ft) 40G QSFP+ Passive Direct Attach Copper Cable
	30808	7m (23ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-4SFP10G-DAC-2	21409	2m (7ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-5	21410	5m (16ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable

N8500-32C

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-BD-40G	48721	40GBASE-SR Bi-Directional Duplex LC Transceiver Module
QSFP-40G-DAC-1	30960	1m (3ft) 40G QSFP+ Passive Direct Attach Copper Cable
	31049	1m (3ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-40G-DAC-2	30794	2m (7ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-3	30795	3m (10ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-4	39695	4m (13ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-5	39696	5m (16ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-6	49609	6m (20ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-7	48974	7m (23ft) 40G QSFP+ Passive Direct Attach Copper Cable
	30808	7m (23ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-4SFP10G-DAC-2	21409	2m (7ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-5	21410	5m (16ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable

N8500-32C

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-BD-40G	48721	40GBASE-SR Bi-Directional Duplex LC Transceiver Module
QSFP-40G-DAC-1	30960	1m (3ft) 40G QSFP+ Passive Direct Attach Copper Cable
	31049	1m (3ft) 40G QSFP+ Active Direct Attach Copper Cable

Supported Transceivers and Cables

N8500-32C

40GE QSFP+ Transceivers & Cables

FS P/N	ID	Description
QSFP-40G-DAC-2	30794	2m (7ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-3	30795	3m (10ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-4	39695	4m (13ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-5	39696	5m (16ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-6	49609	6m (20ft) 40G QSFP+ Passive Direct Attach Copper Cable
QSFP-40G-DAC-7	48974	7m (23ft) 40G QSFP+ Passive Direct Attach Copper Cable
	30808	7m (23ft) 40G QSFP+ Active Direct Attach Copper Cable
QSFP-4SFP10G-DAC-1	21408	1m (3ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-2	21409	2m (7ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable
QSFP-4SFP10G-DAC-5	21410	5m (16ft) 40G QSFP+ to 4x10G SFP+ Passive Direct Attach Copper Breakout Cable

100GE QSFP28 Cables

FS P/N	ID	Description
QSFP28-100G-DAC-1	47096	1m (3ft) 100G QSFP28 Passive Direct Attach Copper Twinax Cable
QSFP28-100G-DAC-2	65897	2m (7ft) 100G QSFP28 Passive Direct Attach Copper Twinax Cable
QSFP28-4x25G-DAC-2	47093	2m (7ft) 100G QSFP28 to 4x25G SFP28 Passive Direct Attach Copper Breakout Cable
QSFP28-4x25G-DAC-3	47094	3m (10ft) 100G QSFP28 to 4x25G SFP28 Passive Direct Attach Copper Breakout Cable

NOTE:

The above table list doesn't cover all the transceivers and cables compatible with the N series switches. The table is just for your reference, and it will be supplemented gradually.



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All statements, technical information, and recommendations related to the products here are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. Please contact FS for more information.