

Aurora's Plug-in Optical Transceivers

Conforming to the Small Form Factor Pluggable (SFP) Multisource Agreement, these state-of-the-art plug-in optical transceivers are designed expressly for high-speed bi-directional communication applications that employ Aurora Networks' digital networking products. Many of these modules are functionally identical to the transceivers already built into several of Aurora's products (e.g., DT4000 series optical node transceiver modules), but provide a more flexible, plug-in means of enabling additional optional secondary ports in several of those products.

Various types of SFP transceivers are available that support rates up to 125 Mbps, 1 Gbps, 2.125 Gbps, and 3.1875 Gbps, with the laser transmission portion of the devices operating at one of a wide variety of available wavelengths (1310 nm, 1550 nm, and 15 CWDM ITU-T G.694.2 grid wavelengths) supporting link budgets over distances ranging up to 40 km.

Aurora's SFP transceivers feature very low jitter contribution, resulting in extremely clean, high-quality eye patterns. And the modules' metal enclosures not only makes them sturdier, but also improves FCC test margins. This emission and ESD control is particularly important in applications with sensitive multiport hubs and switches.



A DT4032E optical node transceiver module with an array of some available SFP options (for transmission at 1310nm, 1550nm, or CWDM wavelength)

Optical Transceivers

"Where Used" Cross-reference Matrix

The chart indicates (with blue checkmarks) which SFP(s) may be used to populate designated ports on products in chassis at the headend, in plug-in modules for outdoor optical node platforms, and in equipment at customer premises. All connectors are Duplex LC/UPC except where stated otherwise in the notes. Please refer to the data sheets for specific SFPs for further description and information.

			Ports of Products Using SFP Transceivers																										
			BP-3104C	BP-3108C	AG3034A - Network Port	AG3034A - Local Ports	DT3032S - Network Port	EX3005A - Ports 4 and 5	GT3410A - Network Port	NI3030x - Network Port	DS4004U - Network Port	DS4004U - Local Port2	DT4030N/4032N - Network Port	DT4230N - Network Port	DT4232N - Network Port	DT4030E/4032E - Network Port	DT4030E/4032E - Local Port	GE4132M - Network Ports 1 & 2	GE4132M - Local (PON) Port	OE4130S - Network Port	PM1003 (in PG110A)	PM1004 (in PG1210A)	MC1810M - Network Port	MC1810M - Local Port	MC2710B - Network Port	MC2710B - Local Port			
	SFP Model Number	Tx Wavelength and Link Budget																											
Max Tx Rate	125 Mbps	TFA1310-TF17 ⁽¹⁾	-	-	-	-	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-		
		TFA1310-TL29	-	-	-	-	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-		
		TFB1550-TF17 ⁽¹⁾	-	-	-	-	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-		
		TFCxxxx-TL29	-	-	-	-	-	✓	✓	-	-	✓	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-		
	1 Gbps	TMG0850-WM01 ⁽²⁾	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	✓		
		2.125 Gbps	TR4000-PI	✓	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	
			TR4040-PI	✓	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
			TR4540-0000-PI	✓	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓
	TR4440B-xxxx-PI		✓	✓	✓	✓	✓	-	✓	✓	✓	-	✓	✓	-	✓	✓	✓	✓	✓	✓	✓	✓	-	✓	✓	✓	✓	
	3.1875 Mbps	TSA1310-TL10	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-		
		TSA1310-TL40	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-		
		TSB1550-TL40	-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-		
TSC-xxxx-TL40		-	-	-	-	-	-	-	-	-	-	-	-	-	✓	-	-	-	-	-	-	-	-	-	-	-			

⁽¹⁾ Simplex LC/UPC connector ⁽²⁾ for Multimode fiber

Model Numbers and Description of Products Using SFP Transceivers

BP-3104C Back Plate (used with DR3x21 series Digital Receivers)
 BP-3108C Back Plate (used with DR3x02 series Digital Receivers)
 AG3034A Aggregator
 DT3032S Digital Transceiver
 EX3005A Ethernet Switch
 GT3410A T1/E1 Access Module
 NI3030x Network Interface Modules
 DS4004U Optical Ethernet Multiplexer

DT4xxxx series Digital Transceivers for Optical Node Platforms
 GE4132M Gigabit Ethernet Node PON™ Module
 OE4130S Monitoring and Control Module
 PM1003 Broadband Power Module (used in PG110A Power Gateway Platform)
 PM1004 Broadband Power Module (used in PG1210A Power Gateway Platform)
 MC1810M 8-port GbE Media Converter
 MC2710B GbE SMART Media Converter™

Please refer to individual product data sheets for further description and information.



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