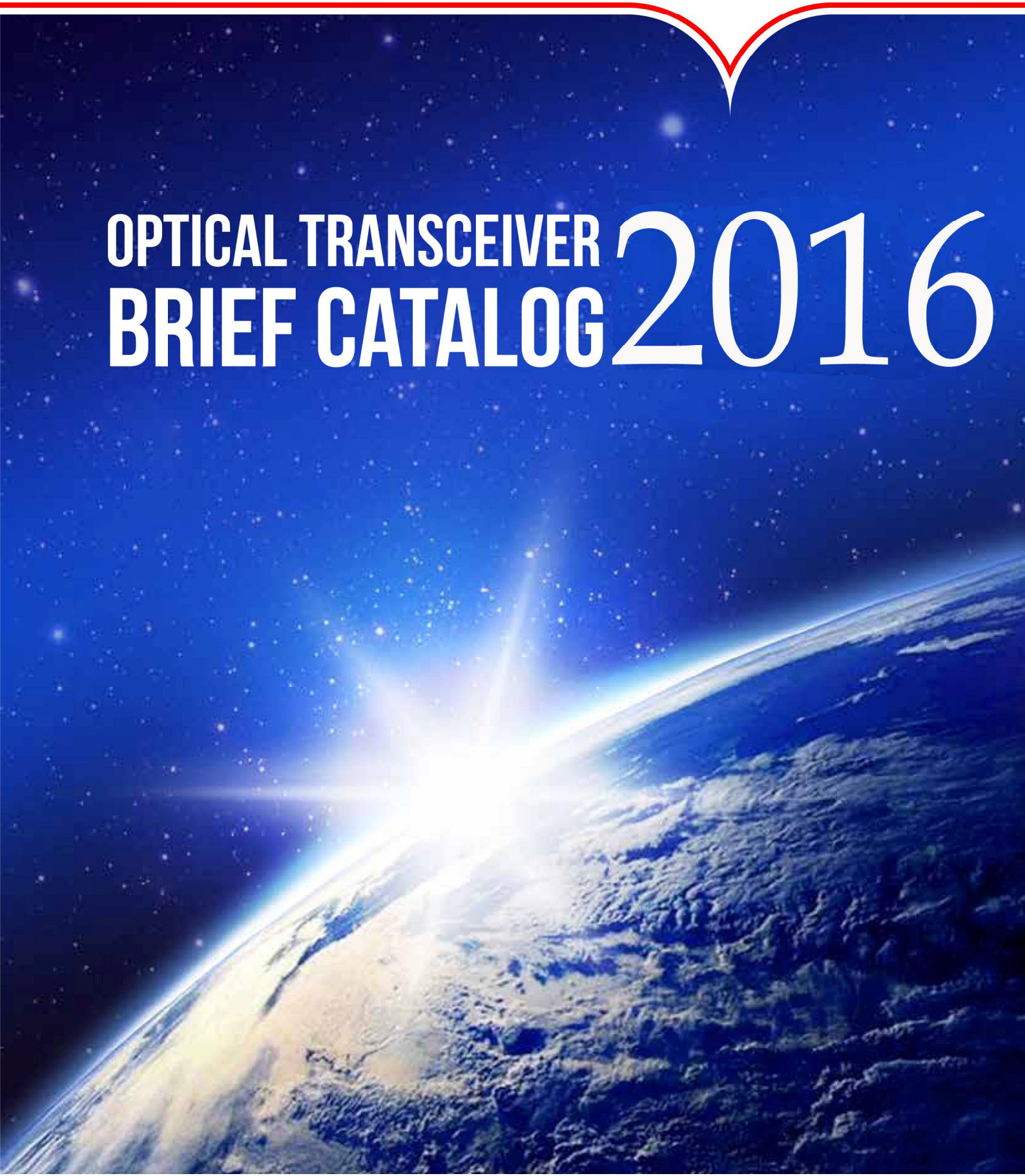




New Era Of Metro Ethernet

OPTICAL TRANSCEIVER BRIEF CATALOG 2016



QSF	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						40GbE	SDH/ SONET	10G FC	FTTx
	40G	1271nm 1291nm 1311nm 1331nm	QSFP+	10km	+	+			
	40G	850nm	AOC QSFP+	1m~100m	+	+			
	40G	850nm	QSFP+	100m	+	+			
CFP	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						100GbE	SDH/ SONET	10G FC	FTTx
	40G	1550nm	CFP	2km	+	+			
	40G	1271nm 1291nm 1311nm 1331nm	CFP	10km	+	+			
	40G	1271nm 1291nm 1311nm 1331nm	CFP	40km	+	+			
	100G 4x25G	1295nm 1300nm 1305nm 1310nm	CFP	10km	+	+	+		
	100G 10x10G	DWDM C band	CFP	40km	+	+			
	100G 4x25G	1295nm 1300nm 1305nm 1310nm	CFP2	10km	+	+	+		
112G 4x27G	1295nm 1300nm 1305nm 1310nm	CFP	10km	+			+		
SFP+ 16G Fiber Channel	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/ SONET	14G FC	FTTx
	16G	850nm	VCSEL	100m	+	+	+	+	
	16G	1310nm	DFB	10km	+	+	+	+	
	16G	DWDM C band	EML	40KM	+	+	+	+	
16G	DWDM C band	EML	70KM	+	+	+	+		
XFP 16G Fiber Channel	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/ SONET	14G FC	FTTx
	16G	DWDM C band	EML	40KM	+	+	+	+	
16G	DWDM C band	EML	70KM	+	+	+	+		
Tunable XFP, Tunable SFP+	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/ SONET	1/2/4/ 8xFC	FTTx
	8G/10G	DWDM C band	Tunable laser	40km	+	+	+	+	
	8G/10G	DWDM C band	Tunable laser	80km	+	+	+	+	
	8G/10G	DWDM C band	Tunable laser	40km	+	+	+	+	
8G/10G	DWDM C band	Tunable laser	80km	+	+	+	+		
10G PON ONU	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						EPON	GPON	SDH/ SONET	FTTx
	1.25G/10G	1310nm/1577nm	SFP	PRX30	+	+		+	
	2.5G/10G	1270nm/1577nm	SFP	XGPON N2	+		+	+	
10G/10G	1270nm/1577nm	SFP	PR30	+	+		+		

10G PON OLT	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						EPON	GPON	SDH/SONET	FTTx
	10G/1.25G	1577nm/1310nm	XFP	PRX30	+	+			+
	10G+1.25G /1.25G	1577nm+ 1490nm/1310nm	XFP	PRX30	+	+			+
	10G/10G	1577nm/1270nm	XFP	PR30	+	+			+
10G/2.5G	1577nm/1310nm	XFP	XGPON N2	+		+		+	
SDH SFP+ CDR	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/SONET	1/2/4/ 8xFC	FTTx
	10G	1310nm	DFB	10km	+	+	+	+	
	10G	1550nm	EML	40km	+	+	+	+	
	10G	1550nm	EML	80km	+	+	+	+	
	10G	1550nm	EML	80km	+	+	+	+	
	10G	CWDM	CWDM EML	40km	+	+	+	+	
	10G	CWDM	CWDM EML	80km	+	+	+	+	
	10G	DWDM	DWDM EML	40km	+	+	+	+	
10G	DWDM	DWDM EML	80km	+	+	+	+		
SFP+ 8G Fiber Channel	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/SONET	1/2/4/ 8xFC	FTTx
	8G	850nm	VCSEL	300m	+	+		+	
	8G	1310nm	DFB	Up to 40km	+	+		+	
	8G	1550nm	EML	Up to 80km	+	+		+	
	8G	CWDM	DFB	Up to 40km	+	+		+	
	8G	CWDM	EML	Up to 80km	+	+		+	
8G	DWDM	EML	Up to 80km	+	+		+		
SFP+, BiDi SFP+, WDM SFP+	Data Rate	Wavelength	Source	Distance	DDM	Application			
						GbE/ 10GbE	SDH/SONET	1/2/4/ 8xFC	FTTx
	8G/10G	850nm	VCSEL	300m	+	+		+	
	8G/10G	1310nm	FP	220m	+	+		+	
	8G/10G	1310nm	FP	2km	+	+		+	
	8G/10G	1310nm	DFB	Up to 20km	+	+		+	
	8G/10G	1550nm	EML	40km	+	+		+	
	8G/10G	1550nm	EML	80km	+	+		+	
	8G/10G	1310nm	DFB	70km	+	+		+	
	8G/10G	1270nm/1330nm	DFB	Up to 60km	+	+		+	
8G/10G	1330nm/1270nm	DFB	Up to 60km	+	+		+		

CWDM SFP+, DWDM SFP+	Data Rate	Wavelength	Source	Link Budget	DDM	Application				
						GbE/10GbE	SDH/SONET	1/2/4/8xFC	FTTx	
	8G/10G	CWDM	CWDM DFB	10dB	+	+		+	+	
	8G/10G	CWDM	CWDM EML	14dB	+	+		+	+	
	8G/10G	CWDM	CWDM EML	23dB	+	+		+	+	
	8G/10G	DWDM	DWDM EML	14dB	+	+		+	+	
	8G/10G	DWDM	DWDM EML	23dB	+	+		+	+	
SFP+ LRM	Data Rate	Wavelength	Source	Distance	DDM	Application				
						10GbE	SDH/SONET	10G FC	FTTx	
	10G	1310nm	FP	>220m	+	+		+		
XFP, BiDi XFP, WDM XFP	Data Rate	Wavelength	Source	Distance	DDM	Application				
						10GbE	SDH/SONET	10G FC	FTTx	
		10G	850nm	VCSEL	300m	+	+		+	
		10G	1310nm	FP	2km	+	+	+	+	
		10G	1310nm	DFB	10km	+	+		+	
		10G	1310nm	DFB/EML	Up to 20km	+	+	+	+	
		10G	1550nm	EML	40km	+	+	+	+	
		10G	1550nm	EML	80km	+	+	+	+	
		10G	1550nm	EML	120km	+	+	+	+	
		10G	1270nm/1330nm	DFB	Up to 60km	+	+	+	+	
	10G	1330nm/1270nm	DFB	Up to 60km	+	+	+	+		
CWDM XFP	Data Rate	Wavelength	Source	Link Budget	DDM	Application				
						10GbE	SDH/SONET	10G FC	FTTx	
		10G	CWDM	CWDM DFB	10dB/14dB	+	+	+	+	
		10G	1470nm-1610nm	CWDM EML	16dB	+	+	+	+	
	10G	1470nm-1610nm	CWDM EML	23dB	+	+	+	+		
DWDM XFP	Data Rate	Wavelength	Source	Distance	DDM	Application				
						10GbE	SDH/SONET	10G FC	FTTx	
		10G	DWDM	DWDM EML	40km	+	+	+	+	
		10G	DWDM	DWDM EML	80km	+	+	+	+	
	10G	DWDM	DWDM EML	120km	+	+	+	+		
XFP 8G	Data Rate	Wavelength	Source	Distance	DDM	Application				
						10GbE	SDH/SONET	10G FC	FTTx	
		8G	850nm	VCSEL	300m	+	+		+	
		8G	1310nm	DFB	10km	+	+		+	
		8G	1550nm	EML	Up to 80km	+	+		+	
		8G	CWDM	DFB	Up to 40km	+	+		+	
		8G	CWDM	EML	Up to 80km	+	+		+	
	8G	DWDM	EML	Up to 80km	+	+		+		

	Data Rate	Wavelength	Source	Distance	DDM	Application			
						FE/GbE	SDH/ SONET	FC	CPRI/ OBSAI
CPRI OBSAI SFP+	1.288G-6.144G	850nm	VCSEL	300m	+				+
	1.288G-6.144G	1310nm	FP	2km	+				+
	1.288G-6.144G	1310nm	DFB	Up to 70km	+				+
	1.288G-6.144G	CWDM	DFB	10km	+				+
	1.288G-6.144G	CWDM	DFB	40km	+				+
	1.288G-6.144G	1270nm/1330nm	DFB	Up to 40km	+				+
	1.288G-6.144G	1330nm/1270nm	DFB	Up to 40km	+				+
LOOPBACK	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						SDH/ SONET	GbE/ 10GbE	40GbE	100GbE
	1.25G		CSFP		+	+	+		
	1.25G/10G		SFP		+	+	+		
	10G		XFP		+	+			
	1.25G/10G		SFP		+	+			
	1.25G/10G		XFP		+	+			
	40G		QSFP+		+			+	
	40G		CFP		+			+	
100G		CFP		+				+	
PON ONU	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						GEAPON	GPON	SDH/ SONET	FTTx
	1.25G	1310nm/1490nm	2x5	Up to 20km		+			+
	1.25G	1310nm/1490nm	2x10	Up to 20km	+	+			+
	1.25G/2.5G	1310nm/1490nm	2x5	Up to 20km			+		+
	1.25G/2.5G	1310nm/1490nm	2x10	Up to 20km	+		+		+
	1.25G	1310nm/1490nm	SFP	Up to 20km	+	+			+
1.25G/2.5G	1310nm/1490nm	SFP	Up to 20km	+		+		+	
PON OLT	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						GEAPON	GPON	SDH/ SONET	FTTx
	1.25G	1490nm/1310nm	2x5	Up to 20km		+			+
	1.25G	1490nm/1310nm	2x10	Up to 20km	+	+			+
	2.5G/1.25G	1490nm/1310nm	2x5	Up to 20km			+		+
	2.5G/1.25G	1490nm/1310nm	2x10	Up to 20km	+		+		+
	1.25G	1490nm/1310nm	SFP	Up to 20km	+	+			+
2.5G/1.25G	1490nm/1310nm	SFP	Up to 20km	+		+		+	
PON Stick	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						GEAPON	GPON	SDH/ SONET	FTTx
	TX:1.25G/RX:2.5G	1310nm/1490nm	SFP	Class B+	+		+		+
	TX:1.25G/RX:2.5G	1310nm/1490nm	SFP	Class C+	+		+		+
TX: 1.25G/RX: 1.25G	1310nm/1490nm	SFP	PX20+	+	+			+	

	Data Rate (TX/RX)	Wavelength (TX/RX)	Form	Distance	DDM	Application			
						FE/GbE	SDH/SONET	FC	FTTx
CSFP	155M/155M	1490nm/1310nm	CSFP option2	10km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option2	10km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option2	20km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option2	20km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option2	10km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option2	10km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option2	20km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option2	20km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option1	10km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option1	10km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option1	20km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option1	20km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option1	10km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option1	10km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option1	20km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option1	20km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option2	10km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option2	10km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option2	20km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option2	20km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option2	10km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option2	10km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option2	20km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option2	20km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option1	10km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option1	10km	+	+	+		+
	155M/155M	1490nm/1310nm	CSFP option1	20km	+	+	+		+
	155M/155M	1310nm/1490nm	CSFP option1	20km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option1	10km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option1	10km	+	+	+		+
	1.25G/1.25G	1490nm/1310nm	CSFP option1	20km	+	+	+		+
	1.25G/1.25G	1310nm/1490nm	CSFP option1	20km	+	+	+		+
155M/155M	CWDM	CSFP option2	Up to 100km	+	+	+		+	
155M/155M	CWDM	CSFP option1	Up to 100km	+	+	+		+	
1.25G/1.25G	CWDM	CSFP option2	Up to 80km	+	+	+		+	
1.25G/1.25G	CWDM	CSFP option1	Up to 80km	+	+	+		+	
2.5G/2.5G	CWDM	CSFP option2	Up to 20km	+	+	+		+	
2.5G/2.5G	CWDM	CSFP option1	Up to 20km	+	+	+		+	

	Data Rate	Wavelength		Link Budget	DDM (optional)	Application			
						FE/ GbE	SDH/ SONET	FC	FTTx
SGMII SFP, BiDi SGMII	100M/ 1000M;MM	1310nm	FP	2km		+			+
	100M/ 1000M;MM	1310nm	FP	2km	MCU	+			+
	100M/ 1000M;SM	1310nm	FP	10km		+			+
	100M/ 1000M;SM	1310nm	FP	10km	MCU	+			+
	100M/ 1000M;MM	1310nm	FP	2km		+			+
	100M/ 1000M;MM	1550nm	DFB	2km		+			+
	100M/ 1000M;MM	1310nm	FP	2km	MCU	+			+
	100M/ 1000M;MM	1550nm	FP	2km	MCU	+			+
	100M/ 1000M;SM	1310nm	FP	10km		+			+
	100M/ 1000M;SM	1550nm	DFB	10km		+			+
	100M/ 1000M;SM	1310nm	FP	10km	MCU	+			+
	100M/ 1000M;SM	1550nm	DFB	10km	MCU	+			+
	GBIC	Data Rate	Wavelength	Source	Distance	Application			
					FE/ GbE	SDH / SONET	FC	FTTx	Video Monitoring
1.25G		850nm	VCSEL	550m	+		+	+	
1.25G		1310nm	FP/DFB	Up to 40km	+		+	+	
GBIC BiDi	1.25G	1310nm	FP	550m	+		+	+	
	1.25G	1550nm	FP	550m	+		+	+	
	1.25G	1310nm	FP/DFB	Up to 40km	+		+	+	
	1.25G	1550nm	DFB	Up to 40km	+		+	+	
	1.25G	1550nm	DFB	Up to 120km	+		+	+	
	1.25G	1490nm	DFB	Up to 120km	+		+	+	
SFP	Data Rate	Wavelength	Source	Distance	DDM (optional)	Application			
						FE/ GbE	SDH/ SONET	FC	FTTx
	125M;MM	1310nm	FP	2km	+	+			+
	155M;SM	1310nm	FP	Up to 60km	+	+	+		+
	155M;SM	1550nm	FP/DFB	Up to 240km	+	+	+		+
	622M;SM	1310nm	FP	Up to 40km	+		+		+
	622M;SM	1550nm	DFB	Up to 200km	+		+		+
	1.25G;MM	850nm	VCSEL	550m	+	+		+	+
	1.25G;MM	1310nm	FP	2km	+	+		+	+
	1.25G;SM	1310nm	FP/DFB	Up to 40km	+	+		+	+
	1.25G;SM	1550nm	DFB	Up to 200km	+	+		+	+
	1.063/ 2.125G;MM	850nm	VCSEL	300m	+			+	
	Up to 2.5G;SM	1310nm	FP	2km	+	+	+	+	
	Up to 2.5G;SM	1310nm	DFB	Up to 40km	+	+	+	+	
Up to 2.5G;SM	1550nm	DFB	Up to 160km	+	+	+	+		
Up to 4.25G;MM	850nm	VCSEL	150m	+			+		

SFP	Up to 4.25G;SM	1310nm	FP	5km	+			+	
	Up to 4.25G;SM	1310nm	DFB	Up to 30km	+			+	
	Up to 4.25G;SM	1550nm	DFB	Up to 120km	+			+	
SFP BiDi SC/LC	155M;MM	TX:1310nm	FP	2km	+	+			+
	155M;MM	TX:1550nm	FP	2km	+	+			+
	155M;SM	TX:1310nm	FP	Up to 20km	+	+	+		+
	155M;SM	TX:1550nm	FP	Up to 20km	+	+	+		+
	155M;SM	TX:1310nm	FP/DFB	Up to 80km	+	+	+		+
	155M;SM	TX:1550nm	DFB	Up to 80km	+	+	+		+
	155M;SM	TX:1510nm	DFB	Up to 200km	+	+	+		+
	155M;SM	TX:1590nm	DFB	Up to 200km	+	+	+		+
	1.25G;MM	TX:1310nm	FP	550m	+	+		+	+
	1.25G;MM	TX:1550nm	FP	550m	+	+		+	+
	1.25G;SM	TX:1310nm	FP	Up to 20km	+	+		+	+
	1.25G;SM	TX:1550nm	DFB	Up to 20km	+	+		+	+
	1.25G;SM	TX:1310nm	DFB	Up to 60km	+	+		+	+
	1.25G;SM	TX:1550nm	DFB	Up to 60km	+	+		+	+
	1.25G;SM	TX:1550nm	DFB	Up to 120km	+	+		+	+
	1.25G;SM	TX:1490nm	DFB	Up to 120km	+	+		+	+
	1.25G;SM	TX:1510nm	DFB	Up to 160km	+	+		+	+
	1.25G;SM	TX:1590nm	DFB	Up to 160km	+	+		+	+
	2.5G;SM	TX:1310nm	FP	Up to 5km	+	+	+	+	+
	2.5G;SM	TX:1550nm	DFB	Up to 5km	+	+	+	+	+
	2.5G;SM	TX:1310nm	DFB	Up to 40km	+	+	+	+	+
	2.5G;SM	TX:1550nm	DFB	Up to 40km	+	+	+	+	+
	2.5G;SM	TX:1550nm	DFB	Up to 80km	+	+	+	+	+
	2.5G;SM	TX:1490nm	DFB	Up to 80km	+	+	+	+	+
	SFP BiDi SC/LC	2.5G;SM	TX:1510nm	DFB	Up to 120km	+	+	+	+
2.5G;SM		TX:1590nm	DFB	Up to 120km	+	+	+	+	+
4.25G;SM		TX:1310nm	FP	Up to 5km	+	+		+	+
4.25G;SM		TX:1550nm	DFB	Up to 5km	+	+		+	+
4.25G;SM		TX:1310nm	DFB	Up to 40km	+	+		+	+
4.25G;SM		TX:1550nm	DFB	Up to 40km	+	+		+	+
4.25G;SM		TX:1550nm	DFB	Up to 80km	+	+		+	+
4.25G;SM		TX:1490nm	DFB	Up to 80km	+	+		+	+
4.25G;SM		TX:1510nm	DFB	Up to 80km	+	+		+	+
4.25G;SM		TX:1590nm	DFB	Up to 80km	+	+		+	+
SFP CWDM	Data Rate	Wavelength		Link Budget	DDM (optional)	Application			
						FE/ GbE	SDH/ SONET	FC	FTTx
	155M	CWDM		50dB	+	+	+		+
	622M	CWDM		41dB	+		+		+
	1.25G	CWDM		41dB	+	+		+	+
	Up to 2.5G	CWDM		33dB	+	+	+	+	+
Up to 4.25G	CWDM		30dB	+	+		+		

SFP DWDM	1.25G	DWDM C band Single Channel		30dB	+	+		+	
	1.25G	DWDM C band Single Channel		32dB	+	+		+	
	100M-2.67G	DWDM C band Single Channel		28dB	+	+	+	+	
	100M-2.67G	DWDM C band Single Channel		30dB	+	+	+	+	
	100M-2.67G	DWDM C band Single Channel		31dB	+	+	+	+	
	1.063G-4.25G	DWDM C band Single Channel		18dB/24dB	+	+		+	
	1.063G-4.25G	DWDM C band Single Channel		24dB	+	+		+	
SFP Multi Rate	1.063G-2.5G	850nm	VCSEL	300m	+	+		+	
	100M-2.67G	1310nm	FP	2km	+	+	+	+	
	100M-2.67G	1310nm	DFB	Up to 40km	+	+	+	+	
	100M-2.67G	1550nm	DFB	Up to 160km	+	+	+	+	
SFP CWDM	Data Rate	Wavelength		Link Budget	DDM (optional)	Application			
						FE/ GbE	SDH/ SONET	FC	FTTx
	155M	CWDM		50dB	+	+	+		+
	622M	CWDM		41dB	+		+		+
	1.25G	CWDM		41dB	+	+		+	+
	Up to 2.5G	CWDM		33dB	+	+	+	+	+
Up to 4.25G	CWDM		30dB	+	+		+		
SFP DWDM	1.25G	DWDM C band Single Channel		30dB	+	+		+	
	1.25G	DWDM C band Single Channel		32dB	+	+		+	
	100M-2.67G	DWDM C band Single Channel		28dB	+	+	+	+	
	100M-2.67G	DWDM C band Single Channel		30dB	+	+	+	+	
	100M-2.67G	DWDM C band Single Channel		31dB	+	+	+	+	
	1.063G-4.25G	DWDM C band Single Channel		18dB/24dB	+	+		+	
	1.063G-4.25G	DWDM C band Single Channel		24dB	+	+		+	
SFP Multi Rate	1.063G-2.5G	850nm	VCSEL	300m	+	+		+	
	100M-2.67G	1310nm	FP	2km	+	+	+	+	
	100M-2.67G	1310nm	DFB	Up to 40km	+	+	+	+	
	100M-2.67G	1550nm	DFB	Up to 160km	+	+	+	+	





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