

## Standards-based flexible Ethernet connections

### OVERVIEW

3Com® transceivers are industry-standard, hot-swappable devices that plug into a Fast, Gigabit, or 10-Gigabit Ethernet transceiver slot, linking it with fiber- and copper-based networks.

### KEY BENEFITS

#### **ADD CONNECTIONS AS NEEDED**

Mix different media types of transceivers on a single switch; add connections, in the number and type, as needed (within limits of the applicable switch).

#### **LEVERAGE INTEROPERABLE ARCHITECTURE**

Compliant with IEEE standards, 3Com transceivers provide full interoperability when connected to other standards-based products.

#### **ADAPT WITH VARIETY OF FORM FACTORS**

3Com transceivers are available in different form factors: XENPAK, XPF and SFP.

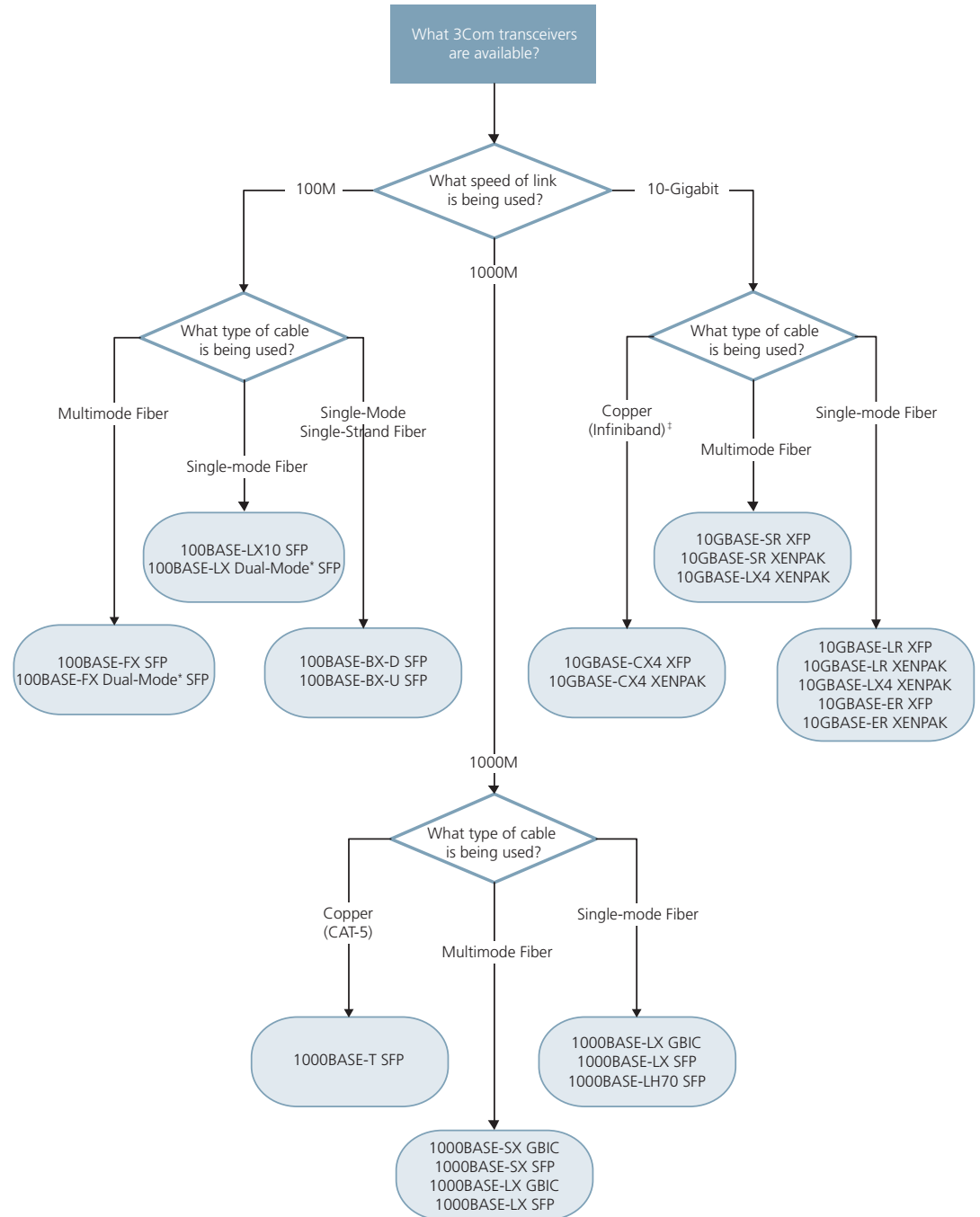
#### **EASILY SERVICE AND SWAP HARDWARE**

Transceivers can be hot-swapped, reducing maintenance and upgrading costs and network downtime. No need to replace entire circuit boards containing several soldered-in modules.

**SUPPORTED 3COM SWITCHES AND MODULES**

		XENPAKs					XFPS				1000 Mbps SFPs				100 Mbps SFPs						
		3CXENPAK91	3CXENPAK92	3CXENPAK94	3CXENPAK95	3CXENPAK96	3CXFP92	3CXFP94	3CXFP95	3CXFP96	3CSFP91	3CSFP92	3CSFP93	3CSFP97	3CSFP81	3CSFP82	3CSFP85	3CSFP86	3CSFP9-81	3CSFP9-82	
<b>3Com Switch Family Supported</b>																					
Device Type	Supported Product Name and Ordering Number																				
Enterprise	<b>3Com Switch 8800</b>																				
	Module	Switch 8800 1-Port 10GBASE-X (3C17511) and Advanced (3C17525) Modules		✓	✓		✓														
	Module	Switch 8800 2-Port 10GBASE-X Advanced (3C17527) and IPv6 (3C17537) Modules						✓	✓	✓	✓										
	Module	Switch 8800 4-Port 10GBASE-X (3C17526) and QUAD IPv6 (3C17536) Modules						✓	✓	✓	✓										
	Module	Switch 8800 24-port 1000BASE-X (3C17514), Advanced (3C17530) and IPv6 (3C17533) Modules										✓	✓	✓	✓						
	Module	Switch 8800 48-Port 1000BASE-X IPv6 Module (3C17538)										✓	✓	✓	✓						
	<b>3Com Switch 7750</b>																				
	Module	Switch 7750/7700 1-Port 10GBASE-X Module (3C16875A)		✓	✓	✓	✓	✓													
	Module	Switch 7750/7700 20-port 1000BASE-X Module (3C16862A)										✓	✓	✓	✓						
	Module	Switch 7750/7700 12-Port 10/100/1000BASE-T & 4-Port 1000BASE-X SFP Module (3C168916)										✓	✓	✓	✓						
Module	Switch 7750/7700 4-Port 10/100/1000BASE-T & 12-Port 1000BASE-X SFP Module (3C168917)										✓	✓	✓	✓							
Module	Switch 7750/7700 48-Port 100BASE-FX SFP Module (3C168915)														✓	✓	✓	✓			
Module	Switch 7750/7700 96 Gbps Fabric (3C16886) Module										✓	✓	✓	✓							
<b>3Com Switch 5500 and 5500G</b>																					
Switch	Switch 5500-SI (all), 5500-EI (all but FX)										✓	✓	✓	✓							
Switch	Switch 5500-EI 28-Port FX										✓	✓	✓	✓	✓	✓	✓	✓			
Switch	Switch 5500G-EI (all)										✓	✓	✓	✓					✓	✓	
Module	Switch 5500G 1-Port 10G Module (3C17261)		✓	✓	✓	✓	✓														
Module	Switch 5500G 2-Port 10G Module (3C17268)						✓	✓	✓	✓											
Module	Switch 5500G 8-Port SFP Module (3C17260)										✓	✓	✓	✓							
<b>3Com Switch 4500 and 4500G</b>																					
Switch	Switch 4500 (all)										✓	✓	✓	✓							
Switch	Switch 4500G (all)										✓	✓	✓	✓					✓	✓	
Module	Switch 4500G 1-Port 10-Gigabit Module (3C17768)						✓	✓	✓	✓											
Module	Switch 4500G 2-Port 10-Gigabit Module (3C17766)						✓	✓	✓	✓											
<b>3Com Switch 4200, 4200G and 4210</b>																					
Switch	Switch 4200 28-Port (3C17304A)										✓	✓	✓	✓							
Switch	Switch 4200G (all)		✓	✓	✓	✓	✓					✓	✓	✓	✓						
Switch	Switch 4210 (all)										✓	✓		✓	✓	✓	✓	✓			
Module	Switch 4200G 1-Port XFP Module (3C17666)						✓	✓	✓	✓	✓	✓	✓	✓							
<b>3Com Unified Gigabit Wireless PoE Switch 24</b>																					
Switch	Unified Gigabit Wireless PoE Switch 24										✓	✓									
<b>3Com Wireless LAN Switch</b>																					
Switch	Wireless LAN Controller WX2200										✓	✓	✓	✓							
<b>3Com Baseline Plus Switch</b>																					
Switch	Baseline Plus Switches (all)										✓	✓									
<b>3Com OfficeConnect® Switch</b>																					
Switch	OfficeConnect Managed Gigabit PoE Switch (3CDSG10PWR) and Switch 9 FX (3CR1609-91)										✓	✓									

## TRANSCEIVER FINDER



\* "Dual-mode" 100BASE-X SFPs provide 100 Mbps fiber connectivity in selected 1000 Mbps slots.

† 3Com CX4 cables available in lengths of 50, 100 and 300 centimeters.

## Specifications

3Com Transceiver Name	Ordering Number	Cable Type	Core Size (microns)	Modal Bandwidth (MHz - Km)	Transmission Range	Optical Power Range (dBm)			
						Wavelength (nm)	Output	Input	Connector
<b>XENPAKs</b>									
10GBASE-LR XENPAK	3CXENPAK92	SMF	9	–	2 m - 10 km (6.6 ft - 6 mi)	1,300	-8.2 to 0.5	-14.4 to 0.5	SC
10GBASE-SR XENPAK	3CXENPAK94	MMF	50	2,000	2 m - 300 m (3.2 ft - 990 ft)	850	-7.3 to -1.3	-11.1 to -1.0	SC
10GBASE-ER XENPAK	3CXENPAK96	SMF	9	–	2 m - 40 km (6.6 ft - 25 mi)	1,550	-4.7 to 4	-15.8 to -1	SC
10GBASE-CX4 XENPAK	3CXENPAK95	Infiniband	–	–	1 - 15 m (3.3 - 49.5 ft)	–	–	–	Infiniband 4x
10GBASE-LX4 XENPAK	3CXENPAK91	MMF	62.5	500	2 - 300 m (6.6 - 984 ft)	1,300	5.5 (max)	-14.25 to 5.5	SC
		MMF	50	400	2 - 400 m (6.6 - 1,312 ft)				
		MMF	50	500	2 - 300 m (6.6 - 984 ft)				
		SMF	9	–	2 m - 10 km (6.6 ft - 6 mi)				
<b>XFPs</b>									
10GBASE-LR XFP	3CXFP92	SMF	9	–	2 m - 10 km (6.6 ft - 6 mi)	1,300	-8.2 to 0.5	-14.4 to 0.5	LC
10GBASE-SR XFP	3CXFP94	MMF	62.5	160	0.5 - 26 m (1.7 - 85 ft)	850	-4.0 to -1.1	-9.9 to -1.0	LC
		MMF	62.5	200	0.5 - 33 m (1.7 - 108 ft)				
		MMF	50	400	0.5 - 66 m (1.7 - 217 ft)				
		MMF	50	500	0.5 - 100 m (1.7 - 328 ft)				
		MMF	50	2,000	0.5 - 300 m (1.7 - 984 ft)				
10GBASE-CX4 XFP	3CXFP95	Infiniband	–	–	1 - 15 m (3.3 - 49.5 ft)	–	–	–	Infiniband 4x
10GBASE-ER XFP	3CXFP96	SMF	9	–	2 m - 40 km (6.6 ft - 25 mi)	1,550	-4.7 to 4	-15.8 to -1	LC
<b>1000 Mbps SFPs</b>									
1000BASE-SX SFP	3CSFP91	MMF	62.5	160	2 - 220 m (6.6 - 721 ft)	850	-9.5 to 0	-17 to 0	LC
		MMF	62.5	200	2 - 275 m (6.6 - 902 ft)				
		MMF	50	400	2 - 500 m (6.6 - 1,640 ft)				
		MMF	50	500	2 - 550 m (6.6 - 1,804 ft)				
1000BASE-LX SFP	3CSFP92	MMF	62.5	500	2 - 550 m (6.6 - 1,804 ft)	1,300	-9.5 to -3	-20 to -3	LC
		MMF	50	400	2 - 550 m (6.6 - 1,804 ft)				
		MMF	50	500	2 - 550 m (6.6 - 1,804 ft)				
		SMF	9	–	2 m - 10 km (6.6 ft - 6 mi)				
1000BASE-LH70 SFP	3CSFP97	SMF	9	–	2 m - 70 km (6.6 ft - 43 mi)	1,550	0 to 3	-24 to -3	LC
1000BASE-T SFP	3CSFP93	CAT5	–	–	100 m (328 ft)	–	–	–	RJ-45
<b>100 Mbps SFPs</b>									
100BASE-FX SFP	3CSFP81	MMF	62.5	500	2 m - 2 km (6.6 ft - 1.2 mi)	1,300	-19 to -14	-31	LC
		MMF	50	400	2 m - 2 km (6.6 ft - 1.2 mi)				
		MMF	50	500	2 m - 2 km (6.6 ft - 1.2 mi)				
100BASE-LX10 SFP	3CSFP82	SMF	9	–	2 m - 10 km (6.6 ft - 6 mi)	1,300	-15 to -8	-25 to -8	LC
100BASE-BX-D SFP	3CSFP85	SMF	9	–	15 km (9.3 mi)	1,550 Xmit 1,310 Rcv	-14 to -8 -31		LC
100BASE-BX-U SFP	3CSFP86	SMF	9	–	15 km (9.3 mi)	1,310 Xmit 1,550 Rcv	-14 to -8 -31		LC
100BASE-FX SFP (Dual-mode)	3CSFP9-81	MMF	50	400	0.5 m - 2 km (1.7 ft - 1.2 mi)	1,310	-20 to -14	-31 to -8	LC
		MMF	62.5	500	0.5 m - 2 km (1.7 ft - 1.2 mi)				
100BASE-LX SFP (Dual-mode)	3CSFP9-82	SMF	9	–	10 km (6.2 mi)	1,310	-15 to -8	-28 to -8	LC

One Year Limited Warranty.

## ORDERING INFORMATION

PRODUCT DESCRIPTION	3COM SKU	PRODUCT DESCRIPTION	3COM SKU	PRODUCT DESCRIPTION	3COM SKU		
<b>XENPAKs</b>							
3Com 10GBASE-LX4 XENPAK	3CXENPAK91	<b>XFPs</b>					
3Com 10GBASE-LR XENPAK	3CXENPAK92	3Com 10GBASE-LR XFP	3CXFP92	<b>100 Mbps SFPs</b>			
3Com 10GBASE-SR XENPAK	3CXENPAK94	3Com 10GBASE-SR XFP	3CXFP94	3Com 100BASE-FX SFP	3CSFP81		
3Com 10GBASE-CX4 XENPAK	3CXENPAK95	3Com 10GBASE-CX4 XFP	3CXFP95	3Com 100BASE-LX10 SFP	3CSFP82		
3Com 10GBASE-ER XENPAK	3CXENPAK96	3Com 10GBASE-ER XFP	3CXFP96	3Com 100BASE-BX10-D SFP	3CSFP85		
<b>1000 Mbps SFPs</b>							
3Com 1000BASE-SX SFP	3CSFP91	<b>Cables</b>					
3Com 1000BASE-LX SFP	3CSFP92	3Com CX4 Local Connection Cable - 50 cm	3C17775	3Com CX4 Local Connection Cable - 100 cm	3C17776		
3Com 1000BASE-T SFP	3CSFP93	3Com CX4 Local Connection Cable - 300 cm	3C17777				
3Com 1000BASE-LH70 (70km) SFP	3CSFP97						