

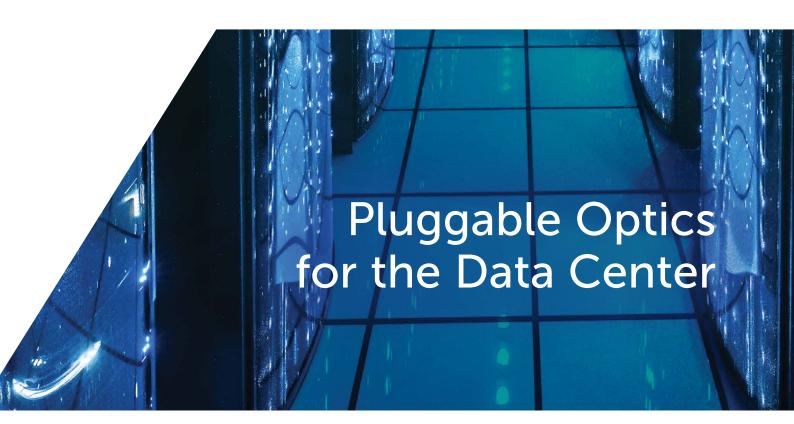
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FINISAR°



Pluggable Optics for the Data Center

The data center ecosystem is going through unprecedented growth and innovation as new players, new business models and new technologies converge. One of the key trends is the growing importance and evolving landscape of fiber optic technologies enabling new architectures and enhanced levels of performance in the data center.

Fiber optics is no longer an optional technology, or only reserved for the toughest interconnect problems. Bandwidth, port density and low-power demands now require fiber optics. And fiber optics is now a pervasive, high-volume, low-cost set of technologies that make it an easy choice for switch interconnect and server I/O.

Finisar is investing heavily in the data center. Our 10G, 40G and 100G fiber optic products are enabling the highest bandwidth, highest density, lowest power and lowest total cost interconnect solutions on the market today. And we are already working on 400G and beyond. We are ready to partner with you to push optical interconnect technologies even further to enable unprecedented scale, bandwidth, flexibility and efficiency to the modern, highly-interconnected data center.

Extend Your Data Center Reach

Finisar optical products span all Ethernet data rates currently deployed, from 100Mb/s to 100Gb/s, and we're leading the market with our 25G Ethernet optical transceivers for next-generation servers and switches. Our 40G QSFP+ products support link distances of up to 300 meters over multimode fiber, well beyond the IEEE 40G Ethernet standard. We also support distances over single mode fiber of up to 40km on 40G QSFP+ and 80km on 10G SFP+. And if you need to connect your data centers over metropolitan or regional networks, our OIF and CFP2-ACO modules can support distances beyond 500km.

Re-Utilize Your Legacy Multimode Fiber Plant

Most data centers today are still architected around 10G Ethernet, focused on 10GBASE-SR links over OM3/OM4 duplex multimode fiber. As data center operators migrate from 10G to 40G and 100G, they want to maintain that existing fiber infrastructure. However, SR4 interfaces require ribbon multimode fiber, and LR4 requires duplex single mode fiber, neither of which are present in the existing duplex multimode fiber plant. Finisar today is supplying QSFP+ LM4 transceivers which allow the use of duplex multimode fiber for 40G Ethernet links, and is introducing SWDM4 solutions which will provide cost-effective duplex multimode fiber links for both 40G and 100G Ethernet.

Increase Density & Consume Less Power

Finisar understands the importance of heat management in the data center, and has been at the forefront of providing next-generation lower power dissipation optical products.

Our 100G QSFP28 optical transceivers (SR4, LR4, CWDM4, and SWDM4) support a maximum power dissipation performance of 3.5 Watts.

Our 40G and 100G Quadwire Active Optical Cables provide low-power dissipation settings which the host system can utilize.

We are the market leader in the supply of 12x10G and 12x25G on-board optical Tx/Rx modules, or BOAs. On-board optics enable increased port density while minimizing power dissipation.

Move beyond 100G to 200G / 400G

Finisar has been the market leader in 100G Ethernet modules, supplying CFP modules to service provider router and transport deployments since 2010. Since then, we have expanded our 100G product offering to include various types of CFP2, CFP4, CXP and QSFP28 modules, for telecom and also the emerging data center and enterprise 100G applications.

However, we're not stopping there. We currently have a leading role in standardization activities and are developing our next-generation Ethernet products, which will support 200G and 400G data rates. These products will meet the performance demands of high-performance data centers for many years to come.



The Modern Highly-Interc



SERVERS

10G SFP+ 25G SFP28 10G SFPwire AOC







TOR/LEAF SWITCHES

40G QSFP+ 4x10G QSFP+ 100G QSFP28 4x25G QSFP28 10G SFP+ 25G SFP28 10G SFPwire AOC

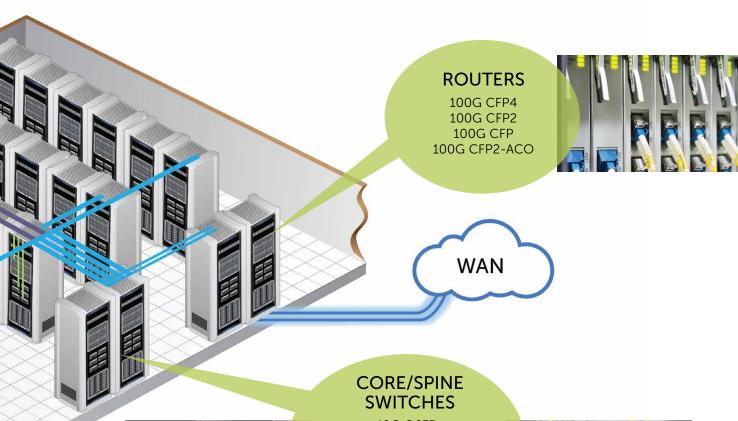
Fiber Types	Maximum Reach			
		1G	10G	
Active Optical Cables (AOC)	≤100m		SFPwire AOC (FCBG110SD1Cxx)	
	≤100m			
Duplex Multimode Fiber	≤220m to 500m	SFP SX (FTLF8519P3BNL)	SFP+ SR (FTLX8574D3BCL) SFP+ LRM (FTLX1371D3BCL)	
Parallel Multimode Fiber	≤100m			
	≤300m		QSFP+ 4xSR (FTL410QD3C)	
	≤1km to 2km		SFP+ LR-Lite (FTLX1374D3BCL)	
Duplex Single Mode Fiber	≤10km	SFP LX (FTLF1318P3BTL)	SFP+ LR (FTLX1471D3BCL) SFP+ CWDM (FTLX2471DC0xx)	
	≤40km	SFP EX (FTLF1419P1BNL)		
Parallel Single Mode Fiber	≤500m to 2km		QSFP+ 4xLR-Lite (FTL4P1QL1C)	
	≤10km		QSFP+ 4xLR (FTL4P1QE1C)	

Please contact Finisar for products supporting other applications and protocols, including Fibre Channel, SONET/SDH/OTN, CPRI, InfiniBand, industria



FINISAR°

onnected Data Center





40G QSFP+ 100G QSFP28 40G/100G Quadwire AOC 100G CXP 100G C.wire AOC

120G/300G BOA



Ethernet Data Rates			
25G	40G	100G	200G / 400G
	Quadwire AOC (FCBN410QB1Cxx) Breakout AOC also available	Quadwire AOC (FCBN425QE1Cxx)	
SFP28 SR (FTLF8536P4BCL)	QSFP+ LM4 (FTL4C2QE1C)	QSFP28 SWDM4 coming soon	
	QSFP+ SWDM4		
QSFP28 4x25G-SR (FTLC9551REPM) CFP4 4x25G-SR (FTLC9141RENM)	QSFP+ SR4 (FTL410QE3C)	QSFP28 SR4 (FTLC9551REPM) CFP4 SR4 (FTLC9141RENM)	Coming Soon
	QSFP+ eSR4 (FTL410QD3C)		
		QSFP28 CWDM4 (FTLC1152RGPL)	Coming Soon
SFP28 LR (FTLF1436P3BCL)	QSFP+ LR4 (FTL4C1QE1C)	QSFP28 LR4 (FTLC1151RDPL) CFP4 LR4 (FTLC1141RDNL)	Coming Soon
	QSFP+ ER4 (FTL4E1QE1C)		
	QSFP+ 4xLR-Lite (FTL4P1QL1C)	Please contact Finisar	
	QSFP+ 4xLR (FTL4P1QE1C)		

l applications and many others. We have the broadest optical portfolio in the industry.



Finisar Products for the Data Center

Intra-rack	
10G SFPwire*	9
10G SFP+ SR	
25G SFP28 SR	
4x10G QSFP+ SR	
4x25G QSFP28 SR	
BOA (optical engine)	-

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Inter-rack	
10G SFP+ SR 400m OM4 MMF	
10G SFPwire* Up to 20m	9
25G SFP28 SR 100m OM4 MMF	
40G QSFP+ SR4 400m OM4 MMF	Sold of the second
40G Quadwire* Up to 100m	
100G QSFP28 SR4 100m OM4 MMF	
100G Quadwire* Up to 100m	
100G CXP SR10 150m OM4 MMF	
100G C.wire® Up to 100m	







About Finisar

Finisar is a global technology leader in optical communications components and subsystems. These products enable high-speed voice, video and data communications for networking, storage, wireless, and cable TV applications. For more than 25 years, Finisar has provided critical breakthroughs in optics technologies and has supplied system manufacturers with the production volumes needed to meet the expanding demand for network bandwidth. Finisar's industry-leading products include optical transceivers, optical engines, active optical cables, optical components, optical instrumentation, ROADM & wavelength management, optical amplifiers, and RF-over-Fiber.

As the market share leader and world's largest supplier of optical components and subsystems, Finisar achieved over \$1B revenue in FY2015 and currently has 13,000 employees across the globe.



Datacom Customers (partial list)

































1389 Moffett Park Drive Sunnyvale, CA 94089-1133 www.finisar.com Telephone: +1 408-548-1000 Sales: +1 408-541-5690 Email: sales@finisar.com

