Fiber Optic Solutions for Networking and Industrial Applications

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Your Imagination, Our Innovation

Sense • Illuminate • Connect

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Avago Technologies offers a broad range of semiconductor products for your specific networking application.

As the world's leading provider of fiber optic components, Avago Technologies offers the broad portfolio of transceivers on the market today. Avago's fiber optic solutions provide comprehensive coverage, superior performance and lowest total cost of ownership for the fast-growing number of applications in the automotive, enterprise, high performance computing, industrial control, metro and storage markets.

Avago's 1–14Gbps VCSEL-based products are widely adopted throughout the wired infrastructure industry in applications ranging from Ethernet, Fibre Channel, InfiniBand, and proprietary-system interconnects. Avago is maintaining its leadership in these areas with the development of 25Gbps VCSEL technology for the next generation of VCSEL-based solutions. We are also continuing our investments in single-mode laser technology by extending our existing 8–14 Gpbs technology to 25 Gbps and beyond. We are pursuing a novel fabrication technology that will reduce the cost, power and complexity of edge emitters as well as new low-cost packaging technologies.

Through the years Avago has built a strong reputation for uncompromising product quality and reliability, responsiveness to customer needs and technical innovation. Its patented manufacturing capabilities, along with its worldwide sales and support staff, offer outstanding flexibility in satisfying customer needs. Coupled with its key component multi-sourcing, capacity and strong supply chain, Avago offers the industry's best assurance of supply. Whether in China, Europe or the United States, Avago provides unmatched service and delivery of lot sizes, ranging from one to over a million, to its customers around the globe.



RoHS-Compliant Fiber Optic Transceivers

Elimination of hazardous materials from products, and in turn the environment, has become a global initiative. In answer to this demand, Avago Technologies offers a broad portfolio of Restriction of Hazardous Substances (RoHS)-compliant fiber optic transceiver solutions. These environmentally friendly transceivers offer the same functionality, performance, quality, and reliability that are characteristic of Avago Technologies' world-leading fiber-optic components. The use of new non-lead based processes and materials in solder finishes and printed circuit board (PCB) assembly make them fully compliant with the requirements of the RoHS directive. Rigorous testing procedures ensure the performance integrity of Avago Technologies' portfolio of fiber optic transceivers; regardless of the materials and processes employed.

Parallel Optic Solutions

40 GbE QSFP Transceivers and Active Optical Cables

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
40GbE, SR4 transcevier module; 850nm VCSEL	AFBR-79EQxZ	QSFP+	Multi-mode	100m OM3 150m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4x10GbE, iSR4 transcevier module; 850nm VCSEL	AFBR-79EIxZ	QSFP+	Multi-mode	100m OM3 150m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4x10GbE, transcevier eSR4 module; 850nm VCSEL	AFBR-79EExZ	QSFP+	Multi-mode	300m OM3 400m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4xQDR AOC; 850nm VCSEL	AFBR-7QERxxZ	QSFP+	Multi-mode	1-20m	3.3V	0 to 70°C	QSFP+	Pluggable

4-Channel Parallel Optic Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Infiniband 4ch @ 2.7 Gb/s per channel 850nm VCSEL	HFBR-7924xxWZ	POP 4	Multi-mode	300m	3.3V	0 to 70°C	MTP	Pluggable
Proprietary / Xaui 4ch @ 2.7 Gb/s per channel 850nm VCSEL	HFBR-7934xxWZ	POP 4	Multi-mode	150m	3.3V	0 to 70°C	MTP	Pluggable

Parallel Optic Solutions

12-Channel Parallel Optic Tranceivers and Active Optical Cables

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Proprietary 12ch TXCR @12.5 Gbps per channel 850nm VCSEL	AFBR-83CDZ	CXP	Mutli-mode	50m	3.3V/2.5V	0 to 70°C	MTP/MPO	Pluggable - Edge mount
Proprietary 12ch AOC @12.5 Gbps per channel 850nm VCSEL	AFBR-83CDxxZ	CXP	Mutli-mode	50m	3.3V/2.5V	0 to 70°C	MTP/MPO	Pluggable - Edge mount
Proprietary 12ch TXCR @10 Gbps per channel 850nm VCSEL	AFBR-83PDZ	CXP	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	MTP/MPO	Pluggable - Edge mount
Proprietary 12ch AOC @10 Gbps per channel 850nm VCSEL	AFBR-83PDxxZ	CXP	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	MTP/MPO	Pluggable - Edge mount

12-Channel Parallel Optic Transmitters and Receivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Proprietary/Ethernet 12ch @10 Gbps per channel 850nm VCSEL	AFBR-811vxyZ	MiniPOD™	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	PRIZM™	Pluggable Socket
	AFBR-821vxyZ	MiniPOD™	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	PRIZM™	Pluggable Socket
Proprietary/Ethernet 12ch @10 Gbps per channel 850nm VCSEL	AFBR-77xxxxZ	MicroPOD™	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	PRIZM™	uLGA
	AFBR-78xxxxZ	MicroPOD™	Mutli-mode	100m	3.3V/2.5V	0 to 70°C	PRIZM™	uLGA
Infiniband/Proprietary 12ch @ 10 Gb/s per channel 850nm VCSEL	AFBR-810BxxZ	PPOD	Mutli-mode	50m	3.3V	0 to 80°C	MTP	Pluggable Socket
	AFBR-820BxxZ	PPOD	Mutli-mode	50m	3.3V	0 to 80°C	MTP	Pluggable Socket
Proprietary/Xaui 12ch @ 6.25 Gb/s per channel 850nm VCSEL	AFBR-776BxxZ	PPOD	Mutli-mode	100m	3.3V	0 to 80°C	MTP	Pluggable Socket
	AFBR-786BxxZ	PPOD	Mutli-mode	100m	3.3V	0 to 80°C	MTP	Pluggable Socket
Infiniband 12ch @ 5 Gb/s per channel 850nm VCSEL	AFBR-775BxxZ	PPOD	Mutli-mode	100m	3.3V	0 to 80°C	MTP	Pluggable Socket
	AFBR-785BxxZ	PPOD	Mutli-mode	100m	3.3V	0 to 80°C	MTP	Pluggable Socket
Infiniband/Proprietary 12ch @ 2.7 Gb/s per channel 850nm VCSEL	HFBR-779BxxWZ	SNAP 12	Mutli-mode	100m	3.3V	0 to 70°C	MTP	Pluggable Socket
	HFBR-789BxxZ	SNAP 12	Mutli-mode	100m	3.3V	0 to 70°C	MTP	Pluggable Socket
Infiniband 12ch @ 2.5 Gb/s per channel 850nm VCSEL	HFBR-772BxxWZ	SNAP 12	Mutli-mode	300m	3.3V	0 to 70°C	MTP	Pluggable Socket
	HFBR-782BxxZ	SNAP 12	Mutli-mode	300m	3.3V	0 to 70°C	MTP	Pluggable Socket
Infiniband 12ch @ 2.5 Gb/s per channel 850nm VCSEL	AFBR-732BxxWZ	SNAP 12	Mutli-mode	50m	3.3V	0 to 70°C	MTP	Pluggable Socket
	AFBR-742BxxZ	SNAP 12	Mutli-mode	50m	3.3V	0 to 70°C	MTP	Pluggable Socket

Ethernet Solutions

Fast Ethernet Transmitters and Receivers

	Part Number		Voltage	Package	Case Temp	Connector	Module Type
	Transmitter	Receiver					
125 MBd Fast Ethernet/FDDI 820nm LED (Multi-Mode) (≤2.7km)	HFBR-14X4Z	HFBR-24XXZ	5V	Simplex	-40 to +85°C	ST	2x4
						SMA	2x4
						SC	2x4
						FC	2x4
125 MBd Fast Ethernet/FDDI 1300 nm LED (Multi-Mode) (≤2km)	HFBR-1115TZ	HFBR-2115TZ	5V	Simplex	0 to +70°C	ST	2x8

* For new designs, Avago Technologies recommends using the RoHS parts. Legacy parts will undergo obsolescence

Fast Ethernet Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Ethernet 100 Mb/s 1310nm LED	AFBR-5903xZ	SFF	Mutli-mode	2km	3.3V	Various	MTRJ	2x5
	HFBR-57E0xxZ	SFP	Mutli-mode	2km	3.3V	Various	LC	Pluggable
	HFBR-5961xxZ	SFF	Mutli-mode	2km	3.3V	Various	LC	2x5
	HFBR-5963xxZ	SFF	Mutli-mode	2km	3.3V	Various	LC	2x5
Ethernet 100 Mb/s 1310nm FP Laser	AFCT-5179xZ	1x9	Single-mode	10km	3.3/5V	Various	SC	1x9
	AFCT-5971xxZ	SFF	Single-mode	10km	3.3V	Various	LC	2x5
SONET/SDH 155 Mb/s 1310nm LED	HFBR-57E0xxZ	SFP	Multi-mode	2km	3.3V	Various	LC	Pluggable
Fast Ethernet 100 Mb/s 1300nm LED (DMI)	HFBR-57E5APZ	SFP	Multi-mode	2km	3.3V	-40 to +85°C	LC	Pluggable

650nm Industrial Fast Ethernet Transceiver

Temp	Standard RoHS Part Number	Voltage	Package	Data Rate	Reach		Connector	Module Type
					POF	HCS		
-25 to +85°C	AFBR-5978Z (with DMI)	3.3V	Duplex	125 MBd	50m	100m	SC-RJ**	2x6

** AFBR-5978Z is compatible with the SC-RJ Connecting System from Reichle & De-Massari AG, Switzerland

Ethernet Solutions

Gigabit Ethernet Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Ethernet 1 Gb/s	ABCU-573xxZ	SFP	Copper	100m	3.3V	-5 to 70°C	RJ-45	Pluggable
	ABCU-574xxZ	SFP	Copper	100m	3.3V	-5 to 70°C	RJ-45	Pluggable
	ABCU-573xAxZ	SFP	Copper	100m	3.3V	-40 to 85°C	RJ-45	Pluggable
	ABCU-574xAxZ	SFP	Copper	100m	3.3V	-40 to 85°C	RJ-45	Pluggable
Ethernet 1 Gb/s 850nm VCSEL	AFBR-53D5xZ	1x9	Multi-mode	550m	5V	0 to 70°C	SC	1x9
	AFBR-5601Z	GBIC	Multi-mode	550m	5V	0 to 70°C	SC	Pluggable
	AFBR-5710xxZ	SFP	Multi-mode	550m	3.3V	Various	LC	Pluggable
	AFBR-5715xxZ	SFP	Multi-mode	550m	3.3V	Various	LC	Pluggable
	HFBR-53A5VxMZ	1x9	Multi-mode	550m	3.3V	0 to 70°C	SC	1x9
	HFBR-5911LZ	SFF	Multi-mode	550m	3.3V	0 to 70°C	LC	2x5
	HFBR-5912EZ	SFF	Multi-mode	550m	3.3V	0 to 70°C	MTRJ	2x5
	HFBR-59L1ALZ	SFF	Multi-mode	550m	3.3V	-10 to 85°C	LC	2x5
Ethernet/Fibre Channel 1 Gb/s 850nm VCSEL	AFBR-5701xxZ	SFP	Multi-mode	550m	3.3V	Various	LC	Pluggable
	AFBR-5705xxZ	SFP	Multi-mode	550m	3.3V	Various	LC	Pluggable
Ethernet/Fibre Channel 2.125 Gb/s 850nm VCSEL	AFBR-57M5APZ	SFP	Multi-mode	550m	3.3V	-10 to 85°C	LC	Pluggable
Ethernet 1 Gb/s 1310nm FP Laser	AFCT-5611Z	GBIC	Single-mode	10km	5V	0 to 70°C	SC	Pluggable
	AFCT-5710xxZ	SFP	Single-mode	10km	3.3V	Various	LC	Pluggable
	AFCT-5715xxZ	SFP	Single-mode	10km	3.3V	Various	LC	Pluggable
Ethernet/Fibre Channel 1 Gb/s 1310nm FP Laser	AFCT-5701xxZ	SFP	Single-mode	10km	3.3V	Various	LC	Pluggable
	AFCT-5705xxZ	SFP	Single-mode	10km	3.3V	Various	LC	Pluggable

SFProbe Gigabit Ethernet Transceivers for PacketPortal

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Ethernet 1 Gb/s 850nm VCSEL	AFBR-5725PZ	iSFP	Multi-mode	550m	3.3V	0 to 85°C	LC	Pluggable
Ethernet 1 Gb/s 1310nm FP Laser	AFCT-5725PZ	iSFP	Single-mode	10km	3.3V	0 to 85°C	LC	Pluggable

10 Gigabit Ethernet Transceivers and Active Optical Cables

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Ethernet/FCoE 10 Gb/s 850nm VCSEL	AFBR-703SNZ	mini-SFP+ (mSFP)	Multi-mode	300m	3.3V	0 to 70°C	LC	Pluggable
10GbE/FCoE SR Transceiver; 850 nm VCSEL	AFBR-709xSxxZ	SFP+	Multi-mode	300m OM3 400m OM4	3.3V	Various	LC	Pluggable
10/1GbE SR Transceiver; 850 nm VCSEL	AFBR-709xDxxZ	SFP+	Multi-mode	300m OM3 400m OM4	3.3V	Various	LC	Pluggable
10GbE/FCoE USR Transceiver; 850 nm VCSEL	AFBR-708xSxxZ	SFP+	Multi-mode	100m OM3 150m OM4	3.3V	0-70 oC	LC	Pluggable
10GbE LRM Transceiver; 1310 nm FP Laser	AFBR-707xSxxZ	SFP+	Multi-mode	220m OM1	3.3V	0-70°C	LC	Pluggable
10GbE/FCoE LR Transceiver; 1310 nm DFB	AFCT-701xSxxZ	SFP+	Single-mode	10Km	3.3V	Various	LC	Pluggable

Ethernet Solutions

10 Gigabit Ethernet Transceivers and Active Optical Cables

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
10GbE SR Transceiver; 850 nm VCSEL	AFBR-720XPDZ	XFP	Multi-mode	300m OM3 400m OM4	3.3V	0-70°C	LC	Pluggable
10GbE LR Transceiver; 1310 nm DFB	AFCT-721XPDZ	XFP	Single-mode	10Km	3.3V	-5-70°C	LC	Pluggable
9.95Gb/s SONET / SDH Transceiver; 1310 nm DFB	AFCT-711XPDZ	XFP	Single-mode	10Km	3.3V	-5-70°C	LC	Pluggable
1-10GbE SFP+ AOC; 850nm VCSEL	AFBR-7CERxxZ	SFP+	Multi-mode	1-20m	3.3V	0 to 70°C	SFP+	Pluggable
1-10G QSFP+ to 4 SFP+ Octopus AOC	AFBR-7IERxxZ	QSFP+/ SFP+	Multi-mode	1-20m	3.3V	0 to 70°C	QSFP+/ SFP+	Pluggable

40 GbE QSFP Transceivers and Active Optical Cables

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
40GbE, SR4 Transcevier module; 850nm VCSEL	AFBR-79EQxZ	QSFP+	Multi-mode	100m OM3 150m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4x10GbE, iSR4 Transcevier module; 850nm VCSEL	AFBR-79EIxZ	QSFP+	Multi-mode	100m OM3 150m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4x10GbE, Transcevier eSR4 module; 850nm VCSEL	AFBR-79EExZ	QSFP+	Multi-mode	300m OM3 400m OM4	3.3V	0 to 70°C	MTP	Pluggable
40GbE/4xQDR AOC; 850nm VCSEL	AFBR-7QERxxZ	QSFP+	Multi-mode	1-20m	3.3V	0 to 70°C	QSFP+	Pluggable

Storage Solutions

ESCON/SBCON Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
ESCON/SBCON 200 Mb/s 1310nm LED	AFBR-5930Z	SFF	Multi-mode	2km	3.3V	0 to 70°C	MT-RJ	2x5
	HFBR-5320Z	ESCON	Multi-mode	2km	5V	0 to 70°C	ESCON	4x7
	HFBR-5984LZ	SFF	Multi-mode	2km	3.3V	0 to 70°C	LC	2x5

1 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Fibre Channel 1.06 Gb/s 850nm VCSEL	AFBR-53B3EZ	1x9	Multi-mode	500m	5V	0 to 70°C	SC	1x9
	AFBR-53D3EZ	1x9	Multi-mode	500m	5V	0 to 70°C	SC	1x9
	HFBR-53A3VFMZ	1x9	Multi-mode	500m	3.3V	0 to 70°C	SC	1x9

2 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Fibre Channel 2.125/1.06 Gb/s 850nm VCSEL	AFBR-57M5APZ	SFP	Multi-mode	300m at 2.125 GBd	3.3V	-10 to 85°C	LC	Pluggable
Fibre Channel 2.125/1.06 Gb/s 850nm VCSEL	AFBR-5921ALZ	SFF	Multi-mode	300m at 2.125 GBd	3.3V	-10 to 85°C	LC	2x5
	AFBR-59M5LZ	SFF	Multi-mode	300m at 2.125 GBd	3.3V	-10 to 85°C	LC	2x6
Fibre Channel 2.125/1.06 Gb/s 1310nm FP Laser	AFCT-57M5ATPZ	SFP	Single-mode	300m at 2.125 GBd	3.3V	-10 to 85°C	LC	Pluggable

Storage Solutions

4 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Fibre Channel 4.25/2.125/1.06 Gb/s 850nm VCSEL	AFBR-57R5AxZ	SFP	Multi-mode	150m at 4.25 GBd	3.3V	-10 to 85°C	LC	Pluggable
	AFBR-57R6AxZ	SFP	Multi-mode	150m at 4.25 GBd	3.3V	-10 to 85°C	LC	Pluggable
	AFBR-59R5xLZ	SFF	Multi-mode	150m at 4.25 GBd	3.3V	Various	LC	2x7
Fibre Channel 4.25/2.125/1.06 Gb/s 1310nm Various	AFCT-57R5xxPZ	SFP	Single-mode	4km, 10km and 30km at 4.25 Gb/s	3.3V	-10 to 85°C	LC	Pluggable

8 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Fibre Channel 8.5/4.25/2.125Gb/s 850nm VCSEL	AFBR-57D9AMZ	SFP+	Multi-mode	150m OM3 180m OM4	3.3V	-10 to 85 oC	LC	Pluggable
Fibre Channel 8.5/4.25/2.125 Gb/s 850nm VCSEL	AFBR-54D7APZ	mini-SFP+ (mSFP)	Multi-mode	150m at 8.5 GBd	3.3V	-10 to 85°C	LC	Pluggable
Fibre Channel 8.5/4.25/2.125 Gb/s 1310nm DFB Laser	AFCT-57D5AxPZ	SFP+	Single-mode	10km and 25km	3.3V	-10 to 85°C	LC	Pluggable

10 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Ethernet/FCoE 10 Gb/s 850nm VCSEL	AFBR-709xFxxZ	SFP+	Multi-mode	300m	3.3V	Various	LC	Pluggable
Ethernet/FCoE 10 Gb/s 1310nm DFB Laser	AFCT-701xSxDZ	SFP+	Single-mode	10km	3.3V	Various	LC	Pluggable
Ethernet 10 Gb/s 1310nm DFB Laser	AFCT-721XPDZ	XFP	Single-mode	10km	3.3V	-5 to 70°C	LC	Pluggable

16 Gigabit Storage Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Fibre Channel 14.025/8.5/4.25 Gb/s 850nm VCSEL	AFBR-57F5MZ	SFP+	Multi-mode	100m OM3 125m OM4	3.3V	0 to 70°C	LC	Pluggable
Fibre Channel 14.025/8.5/4.25 Gb/s 1310 DFB Laser	AFCT-57F5TMZ	SFP+	Single-mode	10km	3.3V	0-70°C	LC	Pluggable
4 x14G proprietary link	AFBR-79F4DZ	QSFP+	Multi-mode	50m OM3 75m OM4	3.3V	0-70°C	MPO	Pluggable
4 x14G proprietary link (Non-DMI)	AFBR-79F4Z	QSFP+	Multi-mode	50m OM3 75m OM4	3.3V	0-70°C	MPO	Pluggable

Base Station Solutions

OBSAI/CPRI Optical Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Base Station 3.072/2.4576 Gb/s 850nm VCSEL	AFBR-57J5APZ	SFP	Multi-mode	500m	3.3V	-40 to 85°C	LC	Pluggable
Base Station 7.37/6.14 Gb/s 850nm VCSEL	AFBR-57J9APZ	SFP	Multi-mode	300m	3.3V	-40 to 85°C	LC	Pluggable
Base Station 3.072/2.4576 Gb/s 1310nm DFB Laser	AFCT-57J5ATPZ	SFP	Single-mode	20km	3.3V	-40 to 85°C	LC	Pluggable
	AFCT-57J5ANPZ	SFP	Single-mode	40km	3.3V	-40 to 85°C	LC	Pluggable
Base Station 3.072/2.4576 Gb/s 1310nm FP Laser	AFCT-57J5APZ	SFP	Single-mode	8km	3.3V	-40 to 85°C	LC	Pluggable
Base Station 7.37/6.14 Gb/s 1310nm DFB Laser	AFCT-57J7ATPZ	SFP	Single-mode	20km	3.3V	-40 to 85°C	LC	Pluggable

Metro Network Solutions

OC-3/SONET/SDH Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
SONET/SDH 155 Mb/s 1310nm LED	AFBR-5805xxZ	1x9	Multi-mode	2km	5V	Various	SC	1x9
	AFBR-5905xZ	SFF	Multi-mode	2km	5V	Various	MTRJC	2x5
	HFBR-57E0xxZ	SFP	Multi-mode	2km	3.3V	Various	LC	Pluggable
	HFBR-5961xLZ	SFF	Multi-mode	2km	3.3V	Various	LC	2x5
	HFBR-5963xLZ	SFF	Multi-mode	2km	3.3V	Various	LC	2x5
SONET/SDH 155 Mb/s 1310nm LED	AFCT-5760xxxZ	SFP	Single-mode	2km,15km and 40km	3.3V	Various	LC	Pluggable
	AFCT-5765xxxZ	SFP	Single-mode	2km,15km and 40km	3.3V	Various	LC	Pluggable
SONET/SDH 155 Mb/s 1310nm FP Laser	AFCT-5805xZ	1x9	Single-mode	15km	3.3/5V	Various	SC	1x9
SONET/ SDH 155 Mb/s 1310nmFP Laser	AFCT-5815xZ	1x9	Single-mode	40km	3.3/5V	Various	SC	1x9
SONET/SDH 155 Mb/s 1310nm FP Laser	AFCT-5961xxxZ	SFF	Single-mode	40km	3.3V	Various	LC	2x5
	AFCT-5962xxxZ	SFF	Single-mode	40km	3.3V	Various	LC	2x10
	AFCT-5963xxxZ	SFF	Single-mode	40km	3.3V	Various	LC	2x5
	AFCT-5964xxxZ	SFF	Single-mode	40km	3.3V	Various	LC	2x10

OC-12/SONET/SDH Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
SONET/SDH 622 Mb/s 1310nm LED	HFBR-5208MZ	1x9	Multi-mode	500m	5V	Various	SC	1x9

Metro Network Solutions

OC-48/SONET/SDH Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
Sonet/SDH 2.488	AFCT-5943LZ	SFF	Single-mode	2km	3.3V	-0 to 70°C	LC	2x5 SFF
Sonet/SDH 2.488	AFCT-5943ALZ	SFF	Single-mode	2km	3.3V	-40 to 85°C	LC	2x5 SFF
Sonet/SDH 2.488	AFCT-5944LZ	SFF	Single-mode	2km	3.3V	-0 to 70°C	LC	2x10 SFF
Sonet/SDH 2.488	AFCT-5944ALZ	SFF	Single-mode	2km	3.3V	-40 to 85°C	LC	2x10 SFF

OC-192/SONET/SDH Transceivers

	Part Number	Package	Media Type	Reach	Voltage	Case Temp	Connector	Module Type
SONET/SDH 9.95 Gb/s 1310nm DFB Laser	AFCT-711XPDZ	XFP	Single-mode	10km	3.3V	-5 to 70°C	LC	Pluggable

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Fiber Optic Transmitters/Receivers for Industrial Networking (Sercos-Profibus-Interbus-S)

Connector Configuration	Part Number		Data Rate	Reach		Supply Voltage	Application Notes	Evaluation Board	Notes/Comments
	Transmitter	Receiver		POF	HCS				
SMA	HFBR-1505CZ	HFBR-2505CZ	DC-2MBd	50m	400m	5V		HFBR-0538Z	Standard Plastic Housing
	HFBR-1505CFZ	HFBR-2505CFZ		50m	300m	5V			Full Metal Housing
	HFBR-1602Z	HFBR-2602Z		20m		5V			Standard Plastic Housing
	HFBR-1604Z	HFBR-2602Z		20m		5V			Standard Plastic Housing
	HFBR-1505AZ	HFBR-2505AZ	DC-10MBd	40m	200m	5V	AN1080	HFBR-0540Z	Standard Plastic Housing
	HFBR-1505AFZ	HFBR-2505AFZ		40m	100m	5V			Full Metal Housing
	HFBR-1506AMZ	HFBR-2506AMZ	DC-16MBd	45m	200m	5V	AN5006	HFBR-0541Z	Metal Coated Plastic Housing
	HFBR-1506AFZ	HFBR-2506AFZ		45m	100m	5V			Full Metal Housing
	HFBR-1506AFZ	HFBR-2555AFZ	2MBd - 16MBd	45m		3.3V/5V			Full Metal Housing
ST	HFBR-1515BZ	HFBR-2515BZ	DC-10MBd	40m	200m	5V	AN1080	HFBR-0539Z	Standard Plastic Housing
	HFBR-1515BFZ	HFBR-2515BFZ		40m	100m	5V			Full Metal Housing

Fiber Optic Transceivers for Industrial Networking (10/100 Ethernet)

Package	Part Number	Data Rate	Reach		Supply Voltage	Operating Temperature	Pin Count	Mounting
			POF	HCS				
Versatile Link	AFBR-5972Z	10/100Mbps	50m		3.3V	-40 to +85C	10 pins	THT
SC-RJ	AFBR-5978Z	10/100Mbps	50m	100m	3.3V	-25 to +85C	2x6 Pins	THT
SFP LC	HFBR-57E5APZ	100Mbps	2000m (MM Fiber)		3.3V	-40 to +85C	Pluggable	SFP

Industrial Networking Solutions

Fiber Optic Transmitters/Receivers for General Purpose Applications

Connector Configuration	Part Number		Data Rate	Reach		Supply Voltage	Application Notes	Evaluation Board
	Transmitter	Receiver		POF	HCS			
Horizontal	HFBR-1523Z	HFBR-2523Z	DC-40kBd	110m		5V	AN1035	HFBR-0503Z
	HFBR-1524Z	HFBR-2524Z	DC-1MBd	10m		5V	AN5374	
	HFBR-1522Z	HFBR-2522Z		45m		5V	AN1035	HFBR-0502Z
	HFBR-1522ETZ	HFBR-2522ETZ		45m		5V		
	HFBR-1521Z	HFBR-2521Z	DC-5MBd	20m		5V	AN1035	HFBR-0501Z
		HFBR-2521ETZ		20m		5V		
	HFBR-1528Z	HFBR-2528Z	DC-10MBd	40m	200m	5V	AN1080	HFBR-0528Z
	AFBR-1529Z							
	AFBR-1624Z	AFBR-2624Z	DC-50MBd	50m		3.3V/5V	White Paper: POF versus Copper (Pub AV02-3500EN)	AFBR-0546Z AFBR-0548Z
	AFBR-1629Z	AFBR-2529Z		50m		3.3V/5V		AFBR-0547Z
	HFBR-1527Z	HFBR-2526Z	125MBd	30m	100m	5V	AN1121 AN1123 AN1066	HFBR-0527PZ (POF) HFBR-0527HZ (HCS)
	HFBR-1527ETZ	HFBR-2526ETZ		30m	100m	5V		
	HFBR-1527Z	HFBR-2526Z	160MBd	50m	50m	5V		
	HFBR-1527ETZ	HFBR-2526ETZ		50m	50m	5V		
Vertical	HFBR-1533Z	HFBR-2533Z	DC-40kBd	110m		5V	AN1035	HFBR-0503Z
	HFBR-1534Z	HFBR-2534Z	DC-1MBd	10m		5V	AN5374	
	HFBR-1532Z	HFBR-2532Z		45m		5V	AN1035	HFBR-0502Z
	HFBR-1531Z	HFBR-2531Z	DC-5MBd	20m		5V	AN1035	HFBR-0501Z
	HFBR-1531ETZ	HFBR-2531ETZ		20m		5V	AN1035	
	HFBR-1537Z	HFBR-2536Z	125MBd	30m	100m	5V	AN1066	HFBR-0527PZ (POF) HFBR-0527HZ (HCS)
			160MBd	50m	50m	5V	AN1123	
Tilted	HFBR-1542ETZ	HFBR-2542ETZ	DC-1MBd	45m		5V	AN1035	HFBR-0502Z
	HFBR-1541ETZ	HFBR-2541ETZ	DC-5MBd	20m		5V	AN1035	HFBR-0501Z
	AFBR-1644Z	AFBR-2644Z	DC-50MBd	50m		3.3V/5V	White Paper: POF versus Copper (Pub AV02-3500EN)	AFBR-0546Z AFBR-0548Z

Fiber Optic Transmitters/Receivers for General Purpose Applications

Connector Configuration	Part Number		Data Rate	Reach		Supply Voltage	Application Notes	Evaluation Board
	Transmitter	Receiver		POF	HCS			
V Housing	SFH757V	SFH551/1-1V	DC-5MBd	20m		5V	AN5341 AN5342	
	SFH757V	SFH250V	100MBd	20m		5V		
Bare LED/ Photodetector	SFH757	SFH551/1-1	DC-5MBd	20m		5V	AN5341 AN5342	
	SFH757	SFH250	100MBd	20m		5V		

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- Front End Modules
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- GPS/GLONASS LNAs
- Optical Finger Navigation
- LED Backlighting, Screen Illumination
- Ambient Light and Proximity Sensors

Wired Infrastructure for switches/routers, data centers, supercomputers and storage/servers with over 200 patents in parallel optics alone and products that include:

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- 20Gb SerDes ASICs in 40nm
- Storage Fibre Channel Transceivers
- QSFP/SFP Sonet Transceivers

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