

PRODUCT CATALOGUE

Solutions for Fiber Optic Network Transceivers Passive Mux-Demux Fiber Products

Part of Amadys

Amadys is the market leader providing solutions for telecom infrastructures. With Nexgen, the Amadys group acquired extensive knowledge on compatible transceivers bringing flexible and cost-effective possibilities when building fiber optic networks.







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Leader of high quality and fully compatible products.

All our products are rigorously tested and coded in our own facilities to ensure your network reliability and uptime. As a partner, we accompany hand-in-hand all our customers to provide them easy plug & play solutions.



O1 Transceivers

Туре	D	Туре		Туре	ul
SFP	100M	QSFP+	40G	QSFP28	100G
SFP	1G	SFP56	50G	QSFP28-DD	200G
SFP+	10G	CFP	100G	QSFP-DD	200G
XFP	10G	CFP2	100G	QSFP-DD	400G
SFP28	25G	CFP4	100G	OSFP 4000	G/800G

Compatible with

3Com A Adva Agilent Alcatel Allied Telesis Alstom Anritsu Apac Opto Arbor Arista Arris Aruba AsGa Avago Avaya Avaya - Nortel ^B BlackMagic Brocade Brocade - Cyan Brocade VDX **BTI** System Calix

CareLink Check Point Ciena Cisco Citrix

COE

Commscope Coriant Corrigent Cyan

- Dahua Datacom Dell
- D-Link E ECI
- Edge-Core Enterasys Ericsson Extreme Networks
- F F5 Networks Fibrolan Force10 Fortigate (Fortinet) Fortinet
- Garland Genexis Gigamon Hirschmann HP - H3C
- HSE Huawei
- IBM Blade Networks Infinera Intel

ISON Tech Ixia Net Optics JDSU

- Juniper K Keymile KTI
- Lancom Linksys Lynx
- Marconi Mellanox Microsens Mikrotik Moxa MRV
- Myricom NEC NetApp Netgear Netinsight Nexans Niagara Nokia Nortel Optelian
 - Orckit
- PacketLight Palo Alto Networks

- Pica8
- Planet
- Procera Networks
- Q Qlogic
- RAD Reason
- RiverStone SAGEMCOM
- Selta SmartOptics Sophos Sorento Synology
- Telco Systems
 Tellabs
 TP-link
 Transition Networks
 Transmode
- Trendnet
- Ubiquity Unifi
- V VSS
- Waystream Westermo
- Z WTD Zhone ZTE Zyxel







The small form-factor pluggable (SFP) standardized by the MSA (Multi Source Agreement) supports synchronous optical networking (SONET/SDH), Gigabit Ethernet, Fiber Channel, PON, and other communications protocols. At introduction, typical speeds were 100Mbit/s & 1 Gbit/s for Ethernet SFPs and now up to 4 Gbit/s Fibre Channel.



- 1000Base-X
- Metro-E
- LAN
- WAN
- Backhaul



- Copper
- SMF or MMF interfaces
- Bi-Directional
- Compact Bi-Directional
- CWDM
- DWDM
- PON
- Commercial or Industrial Temp.



- 100m (Copper)
- 550m (MMF)
- 2km (MMF/SMF)
- 10km
- 20km
- 40km
- 60km
- 80km
- 120km
- 160km



- 10/100/1000Base-X Ethernet
- SONET / SDH
- 1x 2x 4x Fibre Channel
- 3G CPRI







The enhanced Small Form-factor Pluggable (SFP+) is an enhanced version of the SFP that supports data rates up to 16 Gbit/s. The SFP+ MSA specifications defines the module to support 8 Gb Fiber Channel, 10 Gb Ethernet and Optical Transport Network standard OTU2.



Applications

- 10GBase-X
- Metro-E
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center
- Remote PHY



- Copper
- SMF or MMF interfaces
- Bi-Directional
- Compact Bi-Directional
- CWDM
- DWDM
- DWDM Tunable / Auto-Tune
- xPON (Combo PON)
- Commercial or Industrial Temp.



Reach

- 100 (0)
- 100m (Copper)300m (MMF)
- 2km (MMF/SMF)
- 10km
- 20km
- 40km
- 60km
- 80km
- 100km



- 10GBase-X Ethernet
- SONET / SDH
- 6x 8x 10x 16x Fibre Channel
- 6G CPRI
- 11G OTU2





XFP

The "X" Form-factor Pluggable (XFP) Principal applications include 10 Gigabit Ethernet, 10 Gbit/s Fiber Channel, synchronous optical networking (SONET) at OC-192 rates, synchronous optical networking STM-64, 10 Gbit/s Optical Transport Network (OTN) OTU-2, and parallel optics links.



- 10GBase-X
- Metro-E
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center
- Remote PHY



- SMF or MMF interfaces
- Bi-Directional
- CWDM
- DWDM
- DWDM Tunable
- xPON (Combo PON)
- Commercial or Industrial Temp.



- 300m (MMF)
- 2km (MMF/SMF)
- 10km
- 20km
- 40km
- 60km
- 80km



- 10GBase-X Ethernet
- SONET / SDH
- 6x 8x 10x 16x Fibre Channel
- CPRI
- 11G OTU2







The Small Form-factor Pluggable 28 (SFP28) is defined by the MSA as having the the same form-factor specificities as the SFP+. The SFP28 port will typically be backwards compatible with SFP+ and supports 25/28Gb Ethernet, 32Gb Fiber Channel along with Optical Transport Network (OTN).



- 25GBase-X
- 28GBase-X
- Metro-E
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Bi-Directional
- CWDM
- DWDM
- Commercial or Industrial Temp.



- 100m (MMF)
- 10km
- 20km
- 40km



- 25GBase-X Ethernet
- 32x Fibre Channel
- 28G OTU









The Quad Small Form-factor Pluggable + (QSFP+) is defined by the MSA as a module capable of offering 4 independent transmit and receive channels each capable of 10Gb/s operation for an aggregate data rate of 40Gb/s. The QSFP+ also supports the Optical Transport Network (OTN).



- 40GBase-X
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Bi-Directional
- SWDM4
- Commercial or Industrial Temp.



- 100m (MMF)
- 300m (MMF with SWDM4)
- 2km
- 10km
- 20km
- 40km



- 40GBase-X Ethernet
- 43G OTU3









The Small Form-factor Pluggable 56 (SFP56) uses the PAM4 laser modulation offering a 53Gb Ethernet capability.



Applications

- 50GBase-X
- Metro-E
- LAN
- WAN
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 10km



• 50GBase-X Ethernet



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The C Form-factor Pluggable (CFP) was designed after the small form-factor pluggable transceiver (SFP) interface, but is significantly larger to support 100Gb & 112Gb optical connections.



- 100GBase-X
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 10km
- 20km
- 40km



- 100GBase-X Ethernet
- 100G Coherent
- 112G OTU4





The C Form-factor Pluggable 2 (CFP2) was designed to be the half of the size of the CFP transceiver to support 100Gb & 112Gb optical connections.



- 100GBase-X
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 10km
- 20km
- 40km



- 100GBase-X Ethernet
- 100G Coherent
- 112G OTU4











The C Form-factor Pluggable 4 (CFP4) was designed to be the half of the size of the CFP2 transceiver to support 100Gb & 112Gb optical connections.



- 100GBase-X
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 10km
- 20km
- 40km



- 100GBase-X Ethernet
- 112G OTU4









The Quad Small Form-factor Pluggable 28 (QSFP28) is defined by the MSA as a module capable of offering 4 independent transmit and receive channels each capable of 25Gb/s operation for an aggregate data rate of 100Gb/s. The QSFP28 also supports the Optical Transport Network (OTN).



- 100GBase-X
- LAN
- WAN
- Backhaul
- Carrier Transport
- Data Center



- SMF or MMF interfaces
- Bi-Directional
- SWDM4
- DWDM
- Single Lambda
- Commercial or Industrial Temp.



- 100m (MMF)
- 150m (MMF with SWDM4)
- 2km
- 10km
- 20km
- 40km
- 80km



- 100GBase-X Ethernet
- 100G Coherent
- 112G OTU4





The Quad Small Form-factor Pluggable 56. The "56" in QSFP56 refers to the fact that it supports data rates up to 56Gb/s per channel using PAM4 modulation, making it suitable for high-performance networking.



Applications

Reach

- 200GBase-X
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 500m
- 2km
- 10km



• 200GBase-X Ethernet











The Quad Small Form-factor Pluggable Double Density (QSFP-DD) comes in 2 variants. One that provides 200Gb/s connections and one that provides 400Gb/s connections. Both versions are using PAM4 modulation.



• 200GBase-X

• 400GBase-X

Backhaul

Applications



- SMF or MMF interfaces
- Commercial or Industrial Temp.

Data Center

Carrier Transport



Reach

- 100m (MMF)
- 500m
- 2km
- 10km
- 20km
- 40km
- 80km
- Open ZR+



- 200GBase-X Ethernet
- 400GBase-X Ethernet
- 400G Coherent









- **Applications**
- 400GBase-X
- 800GBase-X
- Backhaul
- Data Center



- SMF or MMF interfaces
- Commercial or Industrial Temp.



- 100m (MMF)
- 500m
- 2km
- 10km



• 400GBase-X Ethernet





DAC/AOC

Direct Attach Cables (DAC) and Active Optical Cables (AOC) are both plug & play solutions design for Rack interconnections. The transceivers are directly spliced to the cable which make it a real easy to use solution.



Applications

- 10GBase-X
- 25GBase-X
- 40GBase-X
- 100GBase-X
- 200GBase-X
- 400GBase-X
- 800GBase-X



- DAC (Copper)
- AOC (Fiber)
- SFP+
- SFP28
- SFP56 (Breakout possibility)
- QSFP+ (Breakout possibility)
- QSFP28 (Breakout possibility)
- QSFP28-DD (Breakout possibility)
- QSFP-DD (Breakout possibility)
- OSFP (Breakout possibility)



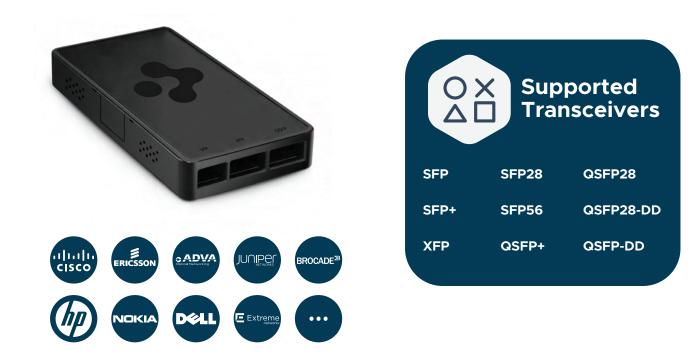
- Up to 7m (Copper)*
- Up to 100m (AOC)



- 10GBase-X Ethernet
- 25GBase-X Ethernet
- 40GBase-X Ethernet
- 100GBase-X Ethernet
- 200GBase-X Ethernet
- 400GBase-X
- 800GBase-X

02 The i-Code

The i-Code is a multi-usage device that provides the possibility to quickly reprogram the transceivers by selecting the desired OEM vendor compatibility. It also allows to tune 10Gb SFP+ DWDM channel and can conduct diagnostics on optics from any brand.



Features



- Recode Nexgen transceivers
- Nexgen Remote assistance
- Reduce spare stock
- Unlimited Recoding
- Diagnostic Monitoring
- Offline Tuning Capabilities



- Windows 10/11
- Nexgen Portable Executable (PE)
- USB Type-C connector
- 5V USB Power Supply
- Internet connection



O3 Pluggable Amplifiers

Pluggable Amplifiers come in several footprints 100% compatible with most common MSA standards ports : SFP+, XFP, CFP2 & QSFP. They are designed for easy plug-&-play optical signal amplifications used for various types of applications.



Applications

- Metro
- ROADM
- DCI
- O-Band (SOA)
- Monitoring
- xPON System
- CATV Networks



Pluggable Types

- SFP+
- XFP
- CFP2
- QSFP



- Automatic Gain Control (AGC)
- Automatic Power Control (APC)



- Erbium Doped Fiber Amplifier (EDFA)
- Semiconductor Optical Amplifier (SOA)





04 xWDM Mux-Demux

Wavelength-Division Multiplexing (WDM) is a technology which multiplexes a number of optical carrier signals onto a single optical fiber by using different wavelengths of laser light enabling bidirectional communications over a single strand of fiber, also called wavelength-division duplexing, as well as multiplication of capacity.



Applications

- CWDM System
- DWDM System
- Uni-directional Systems
- Bi-directional Systems
- CATV Systems
- FTTx



- Ultra Compact
- Compact
- ABS
- LGX
- 1U Rack



- Single Fiber or Double Fiber
- East + West
- Supports from 1270nm to 1610nm
- Low insertion loss
- High channel isolation
- High temperature stability -40°C +85°C
- Epoxy-free optical path
- Modular within rack mount chassis



- Supports from Channel 17 to 60
- Single or double fiber
- Extension Port + Monitor Port variant

- 1310nm + CWDM Port variant
- Low insertion loss
- High channel isolation
- High temperature stability -40°C +85°C
- Epoxy-free optical path
- Modular within rack mount chassis



05 PLC Splitters

Applications

The Planar Lightwave Circuit (PLC) Splitter is a passive device fabricated using lithography onto a silica glass substrate which allows for routing specific percentages of light. It is one of the most important device with many input and output terminals, especially applicable to a passive optical network (xPON, FTTx) to connect the main distribution frame and the terminal equipment and to branch the optical signal.



- FTTx
- LAN/WAN Systems
- CATV Systems
- xPON



- Ultra Compact
- Compact
- ABS
- LGX
- 1U Rack



Features

- Low Insertion Loss
- PDL
- Wide operating bandwith
- Wide operating temperature
- LC / SC connectors
- UPC / APC



• 2 x M M [2;64]



06 Patch Cords



A Patch cord is an electrical or optical cable used to connect (patch in) one electronic or optical device to another for signal routing. Devices of different types (switch connected to a computer, or a switch to a router) are connected with patch cords. Patch cords come in several variants in different colors so as to be easily distinguishable from each other.



Applications

- Data Centers
- Metro-E
- LAN/WAN Systems
- Backhaul
- Carrier Transport



- MMF (OM3 / OM4 / OM5)
- SMF
- Simplex
- Duplex
- LC / SC / MPO / CS connectors
- UPC / APC
- Breakout possibility
- Bend insensitive



Length

- 1m
- 2m
- 3m
- 4m
- 5m
- 6m
- 7m
- ...
- 100m



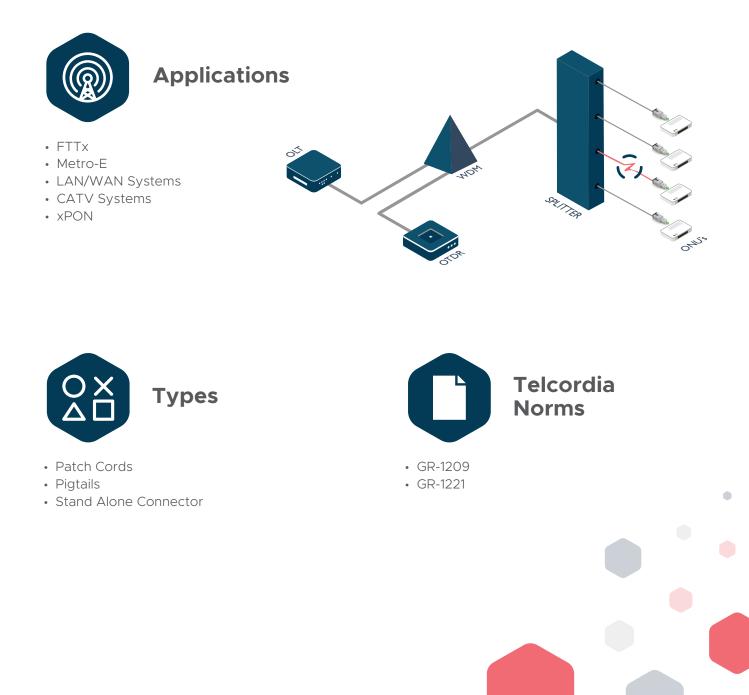
- Available in PVC (OFNR), plenum
- Indoor
- Outdoor
- Ruggedized
- Low smoke zero halogen







The Fiber Bragg Gratings (FBGs) come in various type (connectors, pigtail, patch cords,...) and are placed directly on the network fiber. When the light spectrum propagades through the FBG, only a specific wavelength called the "Bragg wavelength" is reflected, leaving the remaing wavelengths unaffected. By analyzing the Bragg wavelength behavior, defects on the fiber can easily be located.





Couplers

Couplers are used to split or combine the light contained in optical fibers. Some types of couplers can be used to combine two or more inputs into one single output, they are called combiners in this case.



- **Applications**
- FTTx
- LAN/WAN Systems
- CATV Systems
- xPON



- Ultra Compact
- Compact



Features

- Low Insertion Loss
- High Return Loss
- PDL
- Wide operating bandwith
- Wide operating temperature







08 Media Converters

Applications

The Media Converters are devices that allow to interconnect fiber optic cabling-based systems with existing copper-based structured cabling systems. Available in several models supporting datarate from 100Mb/s up to 10Gb/s, they are used Metropolitan Area Network (MAN) access and data Transport services to enterprises.



- Metro-E
- Carrier Transport
- Data Center
- FTTx



- Compact
- Rackable
- Managed
- Non managed



- Store / Forward switching mechanism
- Auto-Cross over for MDI/MDI-X in TP port
- Auto-Negotiation in TP Port
- Full / half Duplex Mode Operation
- MAC address table
- Jumbo Frame
- Memory Biffer
- Link Alarm
- Power down trap
- DIP Switch



- 100Mb/s
- 1Gb/s
- 2.5Gb/s
- 5Gb/s
- 10Gb/s



09 OTDR

The multi-functional OTDR optical fiber tester of can help field technicians reliably and cost effectively install, open, troubleshoot and monitor any optical network architecture. It uses OTDR test module + γ architecture of hand-held general test platform ,and it integrates OTDR, visual fault location, optical power meter, light source and other applications. It can also expand the end face detection function, realize multi pulse width test + automatic analysis, and has powerful functions to measure the length, loss, connection quality and other parameters of various optical fibers.



Quick key test

-).-

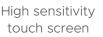
Automatically adjust screen brightness



Mobile

communication

High





Camera function



Built in speaker

Android system



Dual module expansion port

USB port



Replaceable

smart battery

Scanning gun



Sends and receives tasks remotely



Video playback function



SD high speed memory card



Ask for an On-site technical support. Our engineers are here to help you !

Our On-site technical facilitates the validation of our solutions on your network. By working hand-in-hand with our customers we ensure our products are tailor made to their needs.



Contacts

Denmark (HQ) Tvinggårdsvej 1 Skuderløse 4690 Haslev (DK)

+45 (0)32 72 66 76

Belgium Rue Jules Destrée 96 6001 Marcinelle (BE)

+32 (0)71 49 55 52

customer.service@nexgen.eu

It's just not what we do... It's how we do it that makes the difference !

Did you ever get the feeling that the product you absolutely need may just not be supported by your network ?

Ask us for help! We've already extended the equipment capabilities in the past! And we'll gladly do it again.

