

10 Gigabit XFP Serial Hot-Pluggable Transceiver

The Infineon 10G XFP transceiver series is a family of high-performance, low-cost modules for serial optical data communication applications. The modules are protocol-agnostic, ultra-small 10 Gbit/s optical transceivers that comply with all applicable IEEE 802.3ae 10 Gigabit Ethernet and NCITS 10 Gigabit Fibre Channel standards.

Infineon's small-form-factor 10 Gigabit XFP transceivers are fully compliant with the specifications of the XFP MSA (Multi-Source Agreement).

The XFP series includes an 850 nm wavelength version for short-reach applications of up to 300 m and a 1310 nm version for applications of up to 10 km in range.

Infineon's XFP modules allow communications equipment manufacturers to create standard-based, high-bandwidth systems to meet the requirements of 10GE, 10GFC and OC-192 applications, including server network interface cards, host bus adapters, target channel adapters and SAN and enterprise LAN switches.

The modules are designed for high-density applications. Configurations of up to 16 modules in a 19-inch rack space are possible without compromising the stringent thermal and EMI management requirements with 10 Gbit/s optical electronics devices.

Applications

- Fibre Channel SAN switches
- Ethernet LAN switches
- Fibre Channel host bus adapters
- Ethernet network interface cards
- Hubs, bridges, routers
- SONET/SDH/ATM switches



Features

- Full-duplex transmission at 9.95 to 11.08 Gbit/s
- Transceiver options:
 - 850 nm VCSEL for a range up to 300 m over multi-mode fiber
 - 1310 nm DFB laser for up to 10 km over single-mode fiber
- Protocol-transparent
- 2-wire interface for integrated Digital Optical Monitoring
- Serial 10 Gbit/s XFI electrical interface
- User-friendly plug-and-play-style "Hot Swap"
- Power consumption less than 2.5 W
- 5 V, 3.3 V and 1.8 V power supply
- Integrated transmit and receive CDR
- IEC 60825-1 class 1 and FDA 21 CFR 1040.10 and 1040.11 laser eye safety
- ESD class 2 per MIL-STD 883D method 3015.7
- FCC 47 CFR class B

www.infineon.com/fiberoptics



Never stop thinking.

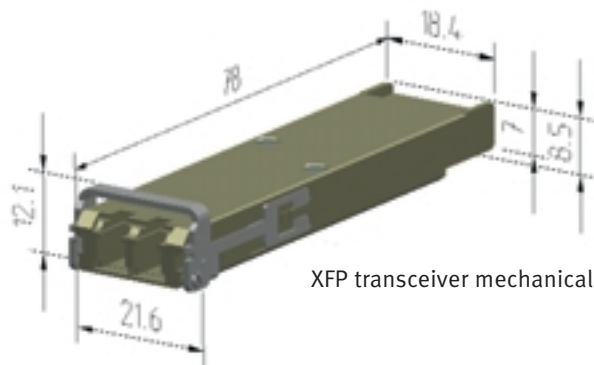
Products

Ordering code	Wave length	Reach	Optical connect
V23833-F0005-B101	850 nm	300 m*	LC
V23833-F0105-B001	1310 nm	10 km	LC

* Using 50 µm multi-mode fiber with 2000 MHz*km bandwidth

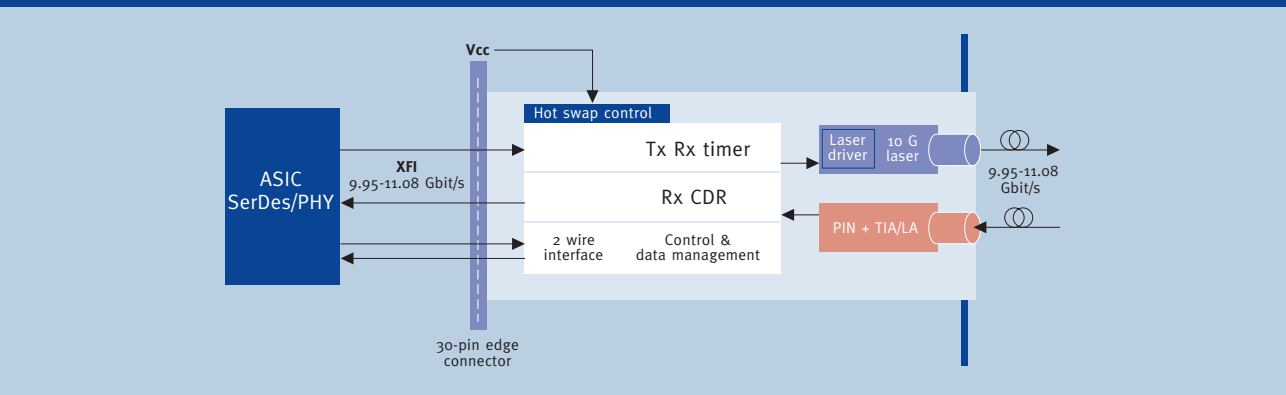
Accessories

Ordering code	Product	Description
V23833-F9909-Z001	XFP evaluation board kit	Test board with 30-Pin XFP connector and cage



XFP transceiver mechanical package [mm]

XFP transceiver block diagram



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