

# IP-HFLS30M85C

SFP+10Gb/s 850nm Multi-mode 0.3km DDM

## PRODUCT FEATURES

- Up to 11.3Gbps Data Links
- 850nm VCSEL laser transmitter and PIN/TIA receiver
- Up to 0.3km on 50/125um OM3 MMF
- Hot-pluggable SFP footprint
- Duplex LC/UPC type pluggable optical interface
- Low power dissipation
- Metal enclosure, for lower EMI
- RoHS compliant and lead-free
- Support Digital Diagnostic Monitor interface
- Single +3.3V power supply
- Compliant with SFF-8472
- Case operating temperature: 0°C ~70°C or -40°C ~85°C



## APPLICATIONS

- 10GBASE-SR/SW 10G Ethernet
- 1200-Mx-SN-I 10G Fiber Channel

## Compliance

- SFF-8472 SFP+ MSA.
- SFP+ SFF-8431 and SFF-8432.
- Fiber Channel 1200-Mx-SN-I
- IEEE802.3ae
- RoHS

## PRODUCT DESCRIPTION

IP-HFLS30M85CSFP+ transceivers are compatible with the Small Form Factor Pluggable Multi-Sourcing Agreement (MSA). The transceiver consists of five sections: the LD driver, the limiting amplifier, the digital diagnostic monitor, the 850nm VCSEL laser and the PIN/TIA. The module data link up to 0.3km in 50/125umOM3 multi-mode fiber.

This transceiver meets the SFP+ industry standard package utilizing an integral LC-Duplex optical interface connector. An enhanced Digital Diagnostic Monitoring Interface compliant with SFF-8472 has been incorporated into the transceiver. It allows real time access to the transceiver operating parameters such as transceiver temperature, laser bias current, transmitted optical power, received optical power and transceiver supply voltage by reading a built-in memory with I<sup>2</sup>C interface.

The optical output can be disabled by a LVTTTL logic high-level input of Tx Disable, and the system also can disable the module via I<sup>2</sup>C. Tx Fault is provided to indicate that degradation of the laser. Loss of signal (LOS) output is provided to indicate the loss of an input optical signal of receiver or the link status with partner. The system can also get the LOS (or Link)/Disable/Fault information via I<sup>2</sup>C register access.

## Contact Information

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Should you need more details about datasheet, contact us, pls.

## Revision History

Version No.	Date	Description
1.0	January 15, 2021	Preliminary datasheet

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