

# SFP-ToC

## Gigabit Ethernet Copper SFP with Timing over Copper



- 1000BaseT SERDES technology
- Preconfigured line clock recovery
- Plug and play SFP module
- IEEE 802.3 and SFP MSA compliance

### MARKET SEGMENTS AND APPLICATIONS

SFP-ToC is a Small-Form-Factor (SFP) transceiver compatible with Gigabit Ethernet and 1000BaseT standards as specified in IEEE802.3-2002 and IEEE 802.3ab. It supports 1000 Mbps data rate up to 100m (328ft) reach over unshielded twisted-pair category 5 cable.

SFP-ToC provides standard serial ID information compatible with SFP SMA, which is accessed with an A0h address via the 2-wire serial CMOS EEPROM protocol. It is also compliant with the FCC 47 CFR Part 15 requirements.

### TIMING AND SYNCHRONIZATION

SFP-ToC recovers timing signals from Ethernet network. The clock is recovered in the copper-to-fiber-optic direction. This enables SFP-ToC to be used in applications that require clock distribution over packet-switched networks.

Clock is recovered from 1000BaseT interface, with SFP-ToC operating in the slave mode only.

The status of an Ethernet link is visually indicated by the corresponding LED.

Gigabit Ethernet  
Copper SFP Recovers  
Clock from the UTP to  
the MSA Connector

**System™**  
on an **SFP**

**RAD**

data communications

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**SFP-ToC****Gigabit Ethernet Copper SFP with Timing over Copper****Specifications****1000BaseT INTERFACE****Compliance**

IEEE 802.3

**Cable Type**

UTP CAT-5

**Range**

100m (328 ft)

**Connector**

RJ-45

**HOST INTERFACE****Host Edge Connector**

SFP-based, MSA-compliant

**GENERAL****Indicators**

Ethernet Link status

On – Ethernet link is OK

Off – No Ethernet link

**Physical**

Height: 12.4 mm (0.48 in)

Width: 14.0 mm ( 0.55 in)

Depth: 74.1 mm ( 2.91 in)

Weight: 30.0g (1.06 oz)

**Power**

3.3V±5%

**Power Consumption**

1.2W

**Environment**

Ambient temperature:

Operating: 0°-65°C (32°-149°F)

Storage: -40°-85°C (-40°-185°F)

Humidity: Up to 90%, non-condensing

**Ordering**

SFP-ToC

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