

# PRODUCT SPECIFICATION MULTI-RATE 2G/4G/8G/10G FC & 10G ETHERNET SCFF 850NM LIMITING TRANSCEIVER

## OVERVIEW

FCI's SCFF optical transceivers TRX08GVP2540 for 2G/4G/8G FibreChannel applications & TRX10GVP2040 for 10G-Ethernet and Fibre Channel applications are built to a small cubic form factor (SCFF) that maintains compliance to the SFF-8431 interface standard while requiring 40% less PCB real estate vs. standard SFP+ transceiver systems. Its 11pin electrical connector supplies the electrical connection and a robust EMI cage encapsulates the entire assembly in order to assure proper EMI shielding compliance.

The assembly includes a 2 wire serial interface similar to I2C interface and power supply. It is RoHS 6/6 compliant per Directive 2002/95/EC and laser safety class 1 compliant per IEC/CDRH. The sub watt power consumption and the compact size enables hardware system designs with high port density.



## FEATURES & BENEFITS

- Small Cubic Form Factor (SCFF) – 40% less PCB space needed vs. standard SFP+ systems
- 11pin electrical interface
- Complies with 2G/4G/8G/10G FC & 10G Ethernet
- Digital diagnostic through 2 wire serial interface (SFP+ compatible)
- SFP+ compatible SFI high speed electrical interface
- Low power consumption at <0.5W (typ.)
- Transmission of up to 300m over OM3 MMF
- 0°C to +70°C case operating temperature range
- 850nm VCSEL laser
- Duplex LC connector
- SCFF is UL certified for use in Low Power Systems (LPS)
- Laser safety class 1
- RoHS 6/6 compliant

## TARGET MARKETS/APPLICATIONS

- Data Center
- Switching
- Industrial

 **PRODUCT SPECIFICATION MULTI-RATE  
2G/4G/8G/10G FC & 10G ETHERNET SCFF  
850NM LIMITING TRANSCEIVER**



## TECHNICAL INFORMATION

### MATERIALS

- Cage  
FCI P/N:
  - Top: CTSCFF0802
  - Bottom: CBSCFF0802
  - Sn/Ni plated sheet bronze

### ELECTRICAL PERFORMANCE

- Power supply voltage: 3.3V
- Data rate per lane: 2,4,8 & 10Gbps
- Power consumption: <0.5W (typ.)

### ENVIRONMENTAL

- RoHS 6/6 compliant
- Laser class 1/CDRH
- Operating temperature range: 0°C to 70°C

### SPECIFICATIONS

- Module meets MSA – Small Form Factors
- SFF – 8431/Electrical
- SFF – 8472/Diagnostic
- Product specification:
  - GS-12-0976 (TRX08GVP2540)
  - GS-12-1086 (TRX10GVP2040)

### APPROVALS AND CERTIFICATIONS

- UL: E251142 – A1
- TUV: 21137374
- FDA: 0312716

### PACKAGING

- Blister package (10pcs)

### SUPPORTED STANDARDS

- 8G Fibre Channel
- 4G Fibre Channel
- 2G Fibre Channel
- 10G Ethernet & 10G Fibre Channel

OPISCF8501013EA4

#### Disclaimer

Please note that the above information is subject to change without notice.