



Agilent Small Form Factor Fiber Optic Transceivers Product Family Overview



Introduction

As the leading provider of high performance fiber optic transceivers, Agilent now offers the industry's broadest line of Metro SFF transceivers.

Agilent Technologies enables the next generation of SONET/SDH transmission equipment with a new line of Small Form Factor (SFF) optical transceivers for Metropolitan and Wide Area Networks. Designed for single mode fiber applications, these modules are fully compliant with the SONET/SDH standards for 155 (OC-3), 622 (OC-12) & (OC-48) 2488 Mb/s links.

About the Product

Using Fabry Perot or Distributed Feedback laser technologies, the HFCT-594X product family offers solutions for short reach (2km) and intermediate reach (15km) OC-48/STM-16 optical links. The HFCT-595X product family offers solutions for OC-12/STM-4 intermediate reach (15km) and long reach (40km) optical links. Rounding out the product portfolio, the HFCT-596X product family offers solutions for OC-3/STM-1 intermediate reach (15km) and long reach (40km) optical links.

Features/Benefits

- **Industry standard LC connectors**
 - Increased port density
- **Minimal electrical cross talk**
- **Lower power consumption**
 - 3.3 V power supply
- **Jitter performance that provides margin to the SONET/SDH standards**
 - Robust EMI performance
- **Extended temperature range operation**
- **High-volume manufacturing**
- **2x5 and 2x10 footprints**
- **SR, IR and LR options**
- **Metalized case with nose shield (optional)**
- **1300nm FP laser source (OC3 and OC12 IR)**
- **1300nm DFB laser source (OC12 LR and OC48)**
- **OC3**
 - LVPECL data, LVPECL signal detect and LVPECL data, LVTTL signal detect
- **OC12**
 - LVPECL data, LVTTL signal detect
- **OC48**
 - LVPECL data, LVTTL signal detect
- **Reference designs demonstrating interoperability with industry leading SONET/SDH physical layer ICs are available**
 - Reduces customer's time to market for new equipment designs

Applications

LC SFF transceivers are designed for ATM LAN & WAN applications such as:

- **ATM switches & routers**
- **SONET Switch Infrastructure**
- **xDSL applications**
- **Metro edge switching**



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Product selection guide

Part Number	SR	IR	LR	0 to 70°C	-20 to +85°C	-40 to +85°C	2 x 10	2 x 5	LVPECL SD	LVTTL SD
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OC-3

HFCT-5961TL		•		•				•	•	
HFCT-5961ATL		•				•		•	•	
HFCT-5961NL			•	•				•	•	
HFCT-5962TL		•		•			•		•	
HFCT-5962ATL		•				•	•		•	
HFCT-5962NL			•	•			•		•	
HFCT-5963TL		•		•				•		•
HFCT-5963ATL		•				•		•		•
HFCT-5963NL			•	•				•		•
HFCT-5964TL		•		•			•			•
HFCT-5964ATL		•				•	•			•
HFCT-5964NL				•			•			•

OC-12

HFCT-5951TL		•		•				•		•
HFCT-5951ATL		•				•		•		•
HFCT-5951NL			•	•				•		•
HFCT-5952TL		•		•			•			•
HFCT-5952ATL		•				•	•			•
HFCT-5952NL			•	•			•			•

OC-48

HFCT-5941L	•			•				•		•
HFCT-5941AL	•					•		•		•
HFCT-5942L	•			•			•			•
HFCT-5942AL	•					•	•			•
HFCT-5942TL		•		•			•			•
HFCT-5942ATL		•			•		•			•

All transceivers available with or without nose shield.

For product information and a complete list of Agilent contacts and distributors, please go to our web site.

www.agilent.com/semiconductors

E-mail: SemiconductorSupport@agilent.com

Data subject to change.

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