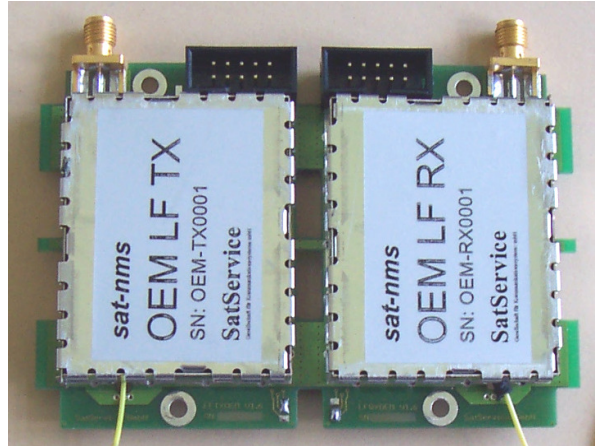


## sat-nms LFTX/RX OEM Fibre Optical Receiver/Transmitter

Based on the **sat-nms** LFRX Optical Receiver and **sat-nms** LFTX Optical Transmitter for analog multi-carrier RF transportation on fibre optical media SatService manufactures also OEM modules. This allows a communication equipment manufacturer to seamlessly integrate optical interfaces into its RF equipment or sub-system. They are manufactured as small shielded printed circuit boards.



### Technical Specification

#### RF Specification

Frequency range	50 to 2150MHz
RF Input Connectors (Transmitter)	SMA female 50Ohm
Input Return Loss	> 15dB
RF Output Connector (Receiver)	SMA female 50Ohm
Output Return Loss	> 15dB
Optical connectors	FC/APC, SC/APC or E2000
Operating Wavelength	1310nm
Optical output power	2mW
Input Noise Figure	< 40dB
Gain	0dB
Flatness	+/-1.5 dB, +/-0.25dB in any 40MHz
Gain Stability	+/-0.25dB/24h
Input signal max (total level)	+10 dBm
Intermodulation at 2dBm Input Level per carrier	<-45 dBc

#### M&C Interface Specification

Summary fault indication	10 pin connector
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#### Electrical and Mechanical Specification, Environmental Conditions

Supply voltage	9 to 12V TX 65mA RX 165mA
Temperature range storage	-40 to + 75
Temperature range operational	-35 to +55 °C
Humidity	up to 90% non condensing

#### Key Features

- Small package outline
- Low noise FP lasers
- Wide dynamic range
- FC/APC, SC/APC or E2000
- Monitoring and alarm functions

#### Applications

- On manufacturers printed circuit boards
- Embedded into other equipment

#### Contact Information

SatService  
Gesellschaft für Kommunikationssysteme mbH

Hardstrasse 9, D-78256 Steisslingen, Germany

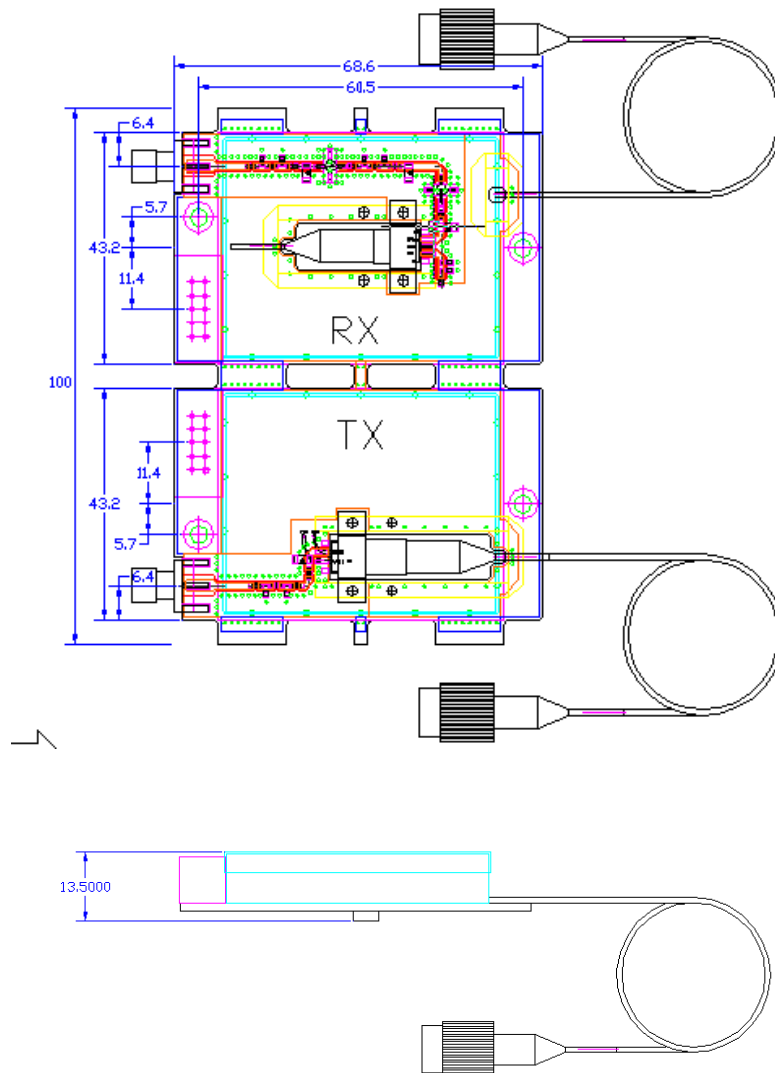
phone +49 7738 97003,

fax +49 7738 97005

e-mail [info@satservicegmbh.de](mailto:info@satservicegmbh.de)

[www.satnms.com](http://www.satnms.com) [www.satservicegmbh.de](http://www.satservicegmbh.de)

## Mechanical Drawing



## Interface Connector

sat-nms LFTX-OEM module			
Pin	Description	Pin	Description
1	NC	2	NC
3	GND	4	NC
5	+9..12V	6	NC
7	TX Monitor O/P	8	NC
9	TX Alarm O/P OC	10	NC

sat-nms LFRX-OEM module			
Pin	Description	Pin	Description
1	NC	2	NC
3	GND	4	NC
5	+9..12V	6	NC
7	RX Monitor O/P	8	NC
9	RXAlarm O/P OC	10	NC