LTS-16

DEVICE

Lightwave Transmitter System with 16 Module Capacity

OVERVIEW

The Optilab LTS-16 is an intuitive, fully integrated system designed for multiple channel RF over Fiber (RFoF) applications. This high density system provides an efficient platform for space utilization and centralized control/monitoring. With a 16 channel capacity, a wide variety of Optilab modules can be integrated into this platform including LT (Lightwave Transmitter), MD (Modulator Driver), EDFA(Erbium-Doped Fiber Amplifier), and passive devices (Mux, splitter). This 3RU model features dual power supplies and an LCD display for module status and operation conditions. With LTS management software, the system and module parameters can be monitored and controlled remotely via Ethernet or RS-485. Contact Optilab for more information.
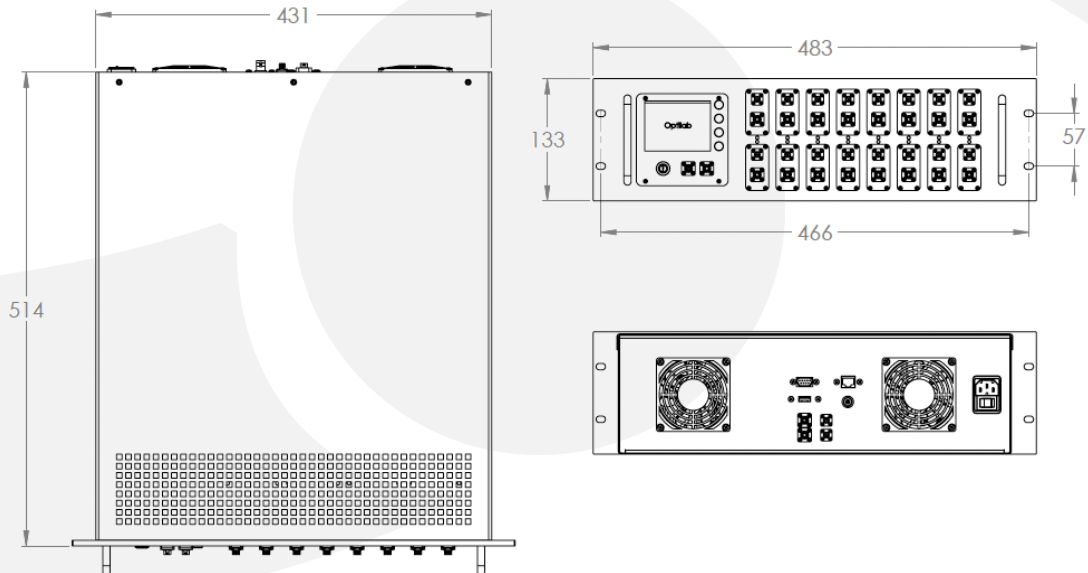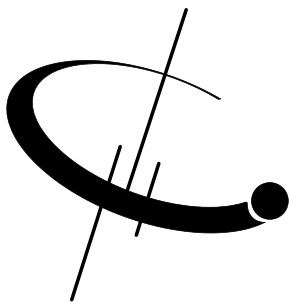
FEATURES

- High-capacity 3RU housing for 16 modules:
  - LT (Lightwave Transmitter)
  - MD (Modulator Driver)
  - EDFA (Erbium-Doped Fiber Amplifier)
  - Passive (Mux, splitter)
- Complete customization of RFoF system
- LTS Management software for control/monitoring of all modules
- Remote control. RS-485 over fiber

USE IN

- Multiple channel RFoF system
- Multiple satellite antenna distribution
- Multiple wavelength RFoF link over single fiber
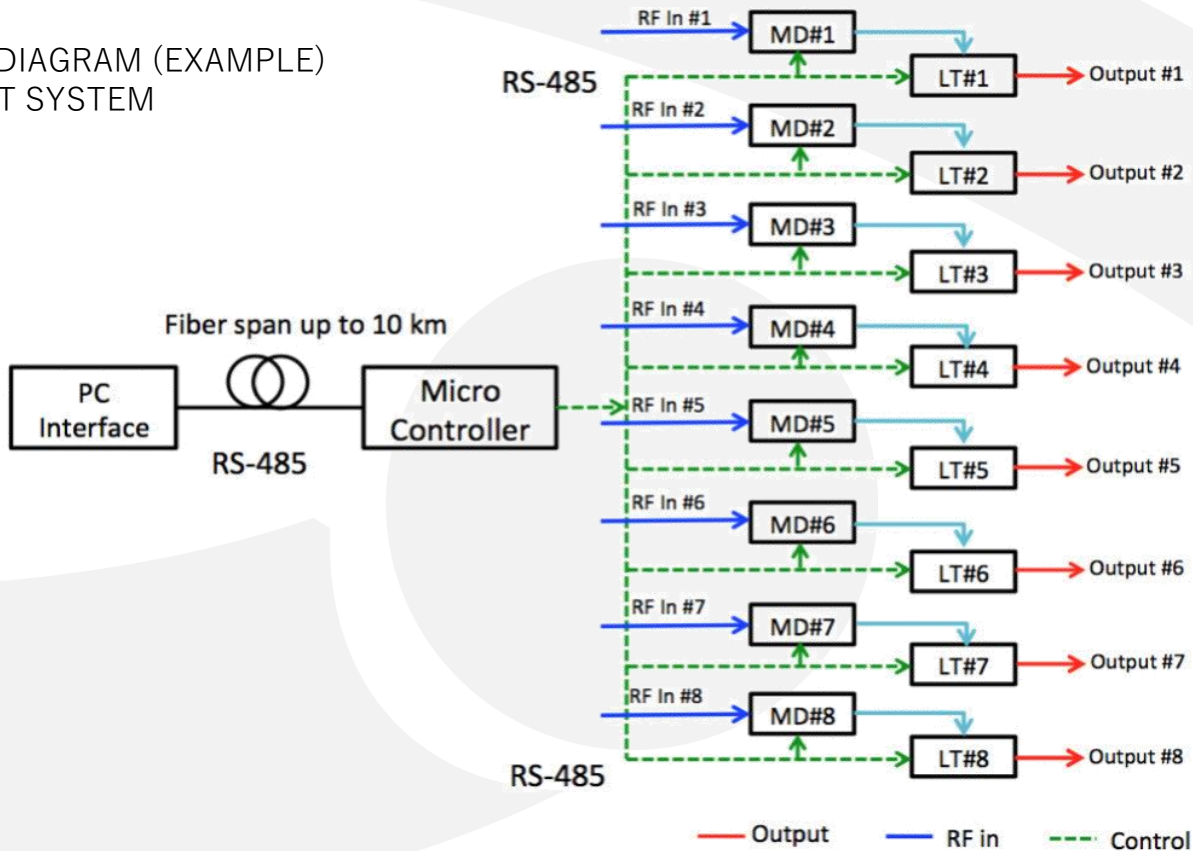
MECHANICAL DRAWING

LTS-16

SPECIFICATIONS

GENERAL

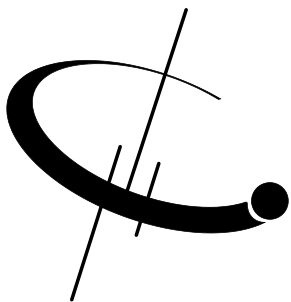|	
Operating Temperature	20ºC to +55ºC
Storage Temperature	-40ºC to +85ºC
Humidity	10% to 90% (non-condensing)
Dimensions	11.52" (L) x 19" (W) x 5.25" (H) (3RU)
Power Supply	Dual redundant
Power Requirement	110/240 VAC, 50-60 Hz, (2A max. optional), DC power supplies available

MECHANICAL

Local	LED for status display
Remote	Optilab LTS management software
RF Connector	K type, V type, or SMA depending upon RF requirements
Optical Connector	FC/APC, additional options available
Interface Connector	FC/APC, additional options available
Remote Control	RS-485 / Ethernet

FUNCTIONAL DIAGRAM (EXAMPLE)
8 x MD + 8 x LT SYSTEM

LTS-16

OPTILAB'S MODULES AVAILABLE FOR INTEGRATION WITH LTS-16-OD

LT SERIES

LTB-12	12 GHz Lightwave Transmitter Board
LTB-20	20 GHz Lightwave Transmitter Board
LTB-40	40 GHz Lightwave Transmitter Board
LTB-20-LD	20 GHz Lightwave Transmitter Board, Low Drive
LTB-40-LD	40 GHz Lightwave Transmitter Board, Low Drive

MD SERIES

MD-12	12 GHz Modulator Driver/RF Amplifier
MD-20	20 GHz Modulator Driver/RF Amplifier
MD-40	40 GHz Modulator Driver/RF Amplifier
MD-50	50 GHz Modulator Driver/RF Amplifier

EDFA SERIES

EDFA-PA-M	25 dB Gain Pre-Amp EDFA Module, C-band
EDFA-18-LC-M	18 dBm EDFA Module with Low Current Consumption
EDFA-23-M	23 dBm In-Line EDFA

PASSIVE

MUX-4	4 Channel Multiplexer
MUX-16	16 Channel Multiplexer
MUX-40	40 Channel Multiplexer
SPLT-4	4 Channel Splitter
SPLT-8	8 Channel Splitter
SPLT-16	16 Channel Splitter