



ORTEL

L-Band Fiberoptic Interfacility Links



2RU Fiberoptic Chassis w/
Redundant Auto Switched
Power Supplies and Capacity
to Hold up Four (4) Tx and/or
Rx Units.

1RU Fiberoptic Chassis with
Redundant Auto Switched
Power Supplies and Capacity
to Hold up Four (4) Tx and/
or Rx Units. Controllable Via
Front Panel.

Features

- 10 MHz - 18 GHz
- Virtually Identical Performance from 100 Feet to 5,000 Feet
- Small, Low Profile Modules
- Environmentally Protected
- Affordable Replacement for Coaxial Cable
- Fiberoptic Interfacility Link Package Includes:
3110/3112/3120 Series Fiberoptic Transmitter,
4110/4112 /4120 Series Fiberoptic Receiver, Single Mode
- Fiberoptic Cable Provided Separately

Applications:

- Earth Stations
- Cellular/PCS
- CATV Headends
- LMDS
- Broadcast
- Office/Apartment Buildings
- Studios
- Subways & Tunnels
- Event Venues
- GPS, Radar, Surveillance
- Radio
- Satellite TT& C
- VSAT

Summary

L-Band Interfacility Links provide simple, easy-to-install and cost effective alternatives to coaxial cables for the connection of an LNB output to satellite receiver equipment. The slimline, low power design makes this efficient module easy to build into either indoor or outdoor equipment. A NEMA 3R enclosure and 2 U height 19" rack mount chassis are available as mounting options for multiple modules. ATCi can provide varied electronic fiber optic solutions for complex system needs. ATCi is a technology partner and premier distributor of the Ortel Satcom fiberoptic products.

Benefits

- Smaller Size and Weight
- Increased Security
- Protection From Lightning
- Electrical Isolation
- Immunity to EMI and RFI
- More Bandwidth Per Channel

Specifications: L-Band Interfacility Links

RF PARAMETERS (RF Specs are for 1 dB Optical Loss)

Model Numbers	3110A/4110A	3112A/4112A
	3120A/4120A	
Freq. Range	950-1450 MHz	950-2050 MHz
Loss	≤ 4 dB	
Noise Figure	≤ 45 dB (≤ 28 dB; Option -002)	
Input Ip3	+7.5 dBm (-13 dBm; Option -002)*	
In/Out Impedance	75 W BNC connector	
SWR (Input/Output)	2 : 1	
*3 dB lower for 3100 Tx Temperature - 20°C to -40°C		

OPTICAL PARAMETERS

Wavelength	1310 ± 30 nm
Fiber	single mode
Connector	FC/APC "Tight Fit" (Compatible w/Seikoh Gilken)

MECHANICAL PARAMETERS

Module	5.29" x 2.88" x 1.41"
NEMA 3R	As required
Rack Chassis	2U (3.50") H x 19" W x 11" D

POWER SUPPLY

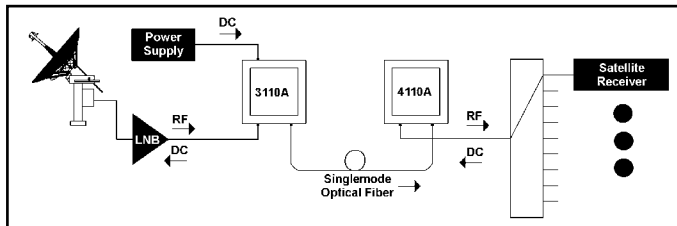
Module (standard)	+8 to +24 VDC, 250 mA
Opt -002	3100: 350 mA, 4100: 150 mA
Rack Chassis Pwr Supply	120/240 V

ALARM

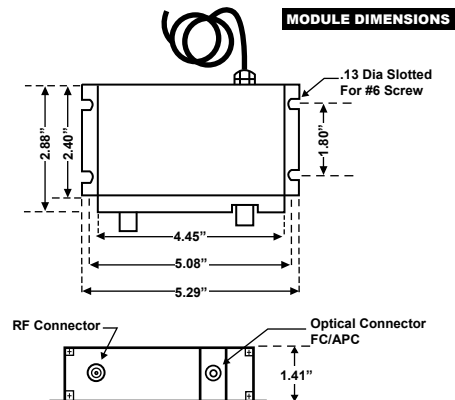
4100 Series (Rx Only)	Received Optical Power Low
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WARRANTY

1 Year



Drawing: Typical satellite receive only configuration. The satellite receiver powers the 4110/4112 Series Fiberoptic Receiver. The DC power supplied to the 3110/3112 Series Fiberoptic Transmitter may also be passed on to power the LNB (DC coupled).



Safety Considerations: The light emitted from this laser diode is invisible and may be harmful to the human eye. Avoid looking directly into the fiber pigtail or into the collimated beam along its axis when the device is in operation. Operating the laser diode outside of its maximum ratings may cause device failure or a safety hazard.