

Fiber optic LNB-Link

The easy solution for converting an LNB to a fiber LNB

NEW!



Features

- Outdoor proof IP 67
- Wide temperature range -40 to +80° C
- Integrated Bias Tee for LNB power
- Compatible with standard 1310nm Fiber receivers
- Cost effective
- Very Low Phase Noise contribution
- Use with SMW VersaLink receiver

TECHNICAL SPECIFICATIONS

MODEL:	LNB-Link Transmitter
RF Frequency	950 - 2150 MHz
Optical Output Wavelength	1310 nm
Optical Output Power	2 mW
System Gain Variation	± 0.20 dB within 30 MHz, ± 1 dB @ 950 - 2150 MHz
RF gain	User adjustable, -10 dB to +10 dB, factory set 0dB @ 100 meter fiber cable
System Noise Figure	20 dB typ. @ full gain
RF Input IP3	+33 dBm @ min. gain, +13 dBm @ max. gain
RF Return Loss	max. -8 dB / 2.3:1 with F connector
System C/N, Single Carrier *)	> 56 dB @ 30 MHz
System C/N, 40 transponders *)	> 33 dB @ input level -15 dBm (composite level, full gain)
SFDR	115 dB / Hz
Fiber Connector	Dual fiber, Single mode Huber & Suhner, Q-ODC
RF Connector	F-type 75Ω, option N-Type 50Ω
RF Monitor Connector	F-type 75Ω, option N-Type 50Ω
DC Feed connector	F-type, option N-Type
DC Input	+12 to +28 V
Bias Tee for LNB DC Supply	1 A, 28 V DC max. out via RF in connector for LNB
Power Consumption	1 W max. (excl. LNB Power)
Temperature Range	-Storage and operational: 40° to + 80° C
Dimensions	96 (L) x 91 (W) x 49 (H) mm, for drawing, see www.smw.se
Weight	465 g with F-connectors, 480 g with N-connectors
Protection Class	IP 67, Q-ODC connector only IP67 when mated with dust cover or Q-ODC cable connector
Accessories	Outdoor to indoor patch cables (Q-ODC to xx-APC)

Rev.06-21-5D

Above parameters are generic product family values. For part number specific min./max. values, please consult us.
Specifications are subject to change without notice. Products from Swedish Microwave AB are made for commercial use.

Fiber optic LNB-Link

High RF- and Optical performance

- 1 x L-Band forward channel using a direct modulated DFB 1310 nm laser over a single fiber cable.
- Manually adjustable Gain for large antennas and Beacon applications.
- Up to 20 km single mode fiber cable distance depending on link budget.
- Free Link budget calculation support available on request.

Fully Outdoor Proof IP67

- Transmitter unit packaged in a compact outdoor rugged aluminium enclosure.
- -40° to +80°C fully operating temp range.
- Ideal to mount on the satellite antenna or structure, without using a bulky separate outdoor enclosure.
- Highly rugged push on, quick connect, Q-ODC fiber connector.

Versatility

- Easy DIN-rail mount option for stacking.
- SMW LNB-Link transmitter is compatible with SMW Versa-Link Receiver and many other manufacturer's corresponding fiberoptic receiving devices.

Applications

- Single fiber downlink connection from one LNB.
- Carries any 950 - 2150 MHz LNB RF signal

