

GNSS Fiber Optic – Kit in 19" Rack form

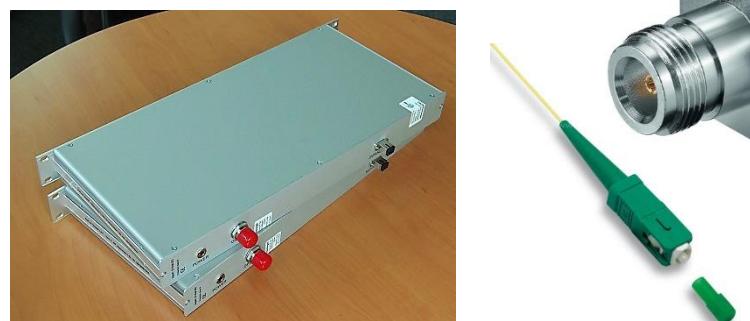
Art.-Nr. 3070010

The GNSS Fiber Optic Kit was designed to transmit GNSS signals via a laser optical link. This enables a signal distribution over long distances while reducing time delays to a minimum.

This kit contains a Fiber Optic Transmitter and a Fiber Optic Receiver in two 19" rack mounts.

The Fiber Optic Transmitter converts the GNSS RF-signal (e.g. from outdoor antenna, GNSS simulator) to an optical laser signal for transmission, while the Fiber Optic Receiver reconverts the signal for use with a coaxial cable.

In default configuration the Input / Output signal level is 1:1. Customized specification is available on request.



INTERFACES

> Fiber Optic Transmitter

RF IN

TNC-f

Optic OUT

SC/ APC female

> Fiber Optic Receiver

RF OUT

TNC-f

Optic IN

SC/ APC female

PHYSICAL SPECIFICATIONS

> Operating Temperature

-20 to 70°C

> Housing

19"Rack – 1HE (Height)

> Weight

each 1.9 kg

> Housing

coated aluminum

> Size

T: 210 mm /230 mm (N-f)

CABLE

> Single Mode fiber optic 9/125 um (up to 5 km)

TECHNICAL SPECIFICATIONS

> GNSS systems

GPS, Glonass, Galileo,

Beidou, QZSS, IRNSS

50 Ω

1200 – 1700 MHz

1310 nm

1:1

230V to 12 V DC

- 75 dBm

- 45 dBm

RX: 180 mA / TX: 90 mA

To operate the system, at least 30 dB gain active antenna is needed. The RG58 coaxial cable should be not more than 10 m length.

OPTIONS

Custom specifications regarding Connectors, Signal Strength Input/output, integrated (High Rejection) filter, for different GNSS Frequencies are available on request!