



GPS / GNSS Solutions

GPS/GNSS Fiber Optic Repeater



Features

- GPS / GNSS support (GPS Glonass & Galileo)
- High efficiency directional indoor retransmitting antenna

Applications

- Aircraft hangars
- Border surveillance
- Fire/Police stations
- Tunnels
- Data centers
- Fleet management
- Military bunkers

GPS/ GNSS Solution

Product Description

Foxcom's GPS/GNSS optical repeater solution is the ideal solution for retransmitting GPS/GNSS signals indoors.

The repeater system provides seamless coverage inside a hangar or a large facility enabling the testing of navigational systems.

The Repeater Kit consists of an Outdoor Unit (ODU), an Indoor Unit (IDU), antennas cables and a power supply (PS). Using top RF-Noise performance and a unique indoor directional RHCP antenna, the system provides better coverage, consumes less power and adds less distortion than compatible systems.

The fiber optic line between the indoor and outdoor units enables remote and flexible placement of outdoor antennas. Users can enjoy the many benefits that optical fiber has to offer, such as low RF transmission loss, improved signal quality, lightning protection, safety and ease of installation.

System Specifications

Fiber Optical Repeater Specifications		
Frequency range	1550-1610MHz	
ODU input / IDU output VSWR	1:1.6dBm	
ODU RF input signal range [total power]	Up to -20dBm	
Noise Figure]	<5dB	
Optical Specifications		
Required fiber type	SMF -28 or equivalent [single mode]	
Optical wavelength	1310±10nm	
ODU optical power output	-3dBm / 0.5mW (Min)	
Optical connector	FC-APC	
Fiber length	3Km max (2dB)	
Physical Specifications	Indoor	Outdoor
RF Connectors	Single SMA Female	
Dimensions	Compact	11.5" x 16.5" x 3.5"
Operating temperature	-20 to +55°C	-30 to +55°C

Ordering Information

Model Number	Description
GPSKIT-R-O-U-2-2-0	GPS Kit with indoor and outdoor antenna plus 2x cables