

FS 3000-GPS

Fiber Optic based transmission system for GPS

- RF ON FIBER® Technology
- Cost Effective configurations
- Packaging Formats
 - 19 inch subrack
 - NEMA Enclosure
 - OEM Format
- Integrated LNA powering
- Singlemode Fiber Cable
- AC or DC Powering

Description

Multi-channel configurations Fiber Optic FS 3000-GPS System for Global Positioning System (GPS) applications 19 inch 1U subrack NEMA weather-proof outdoor enclosure.

The FS 3000-GPS series is a fiber optic based transmission system for GPS antenna systems. The system utilizes Fiber-Span patented RF ON FIBER® technology to transmit RF signals over low loss optical fiber, linearly with low noise characteristics.

The FS 3000-GPS utilizes high performance fiber optic transmitters and receiver modules to deliver high dynamic range radio-frequency GPS signals. The transmitter unit can be housed in a 19 inch 1U subrack, NEMA enclosure (or other packaging formats) which accept inputs from active GPS antenna stations. The antenna-transmitter station can be powered by 90 - 265 VAC or DC. The fiber optic connectors are traditionally FC/APC or SC/APC style with other options available. RF connector options are N type, SMA or any other RF standard. The receiver-remote unit is typically a 1U subrack or wall mounted NEMA enclosure. This unit also accepts 90 - 265 VAC or DC powering. Fiber-Span value-added systems use fiber optic module and subsystem technology that has been proven and deployed worldwide.



19 inch 1U subrack



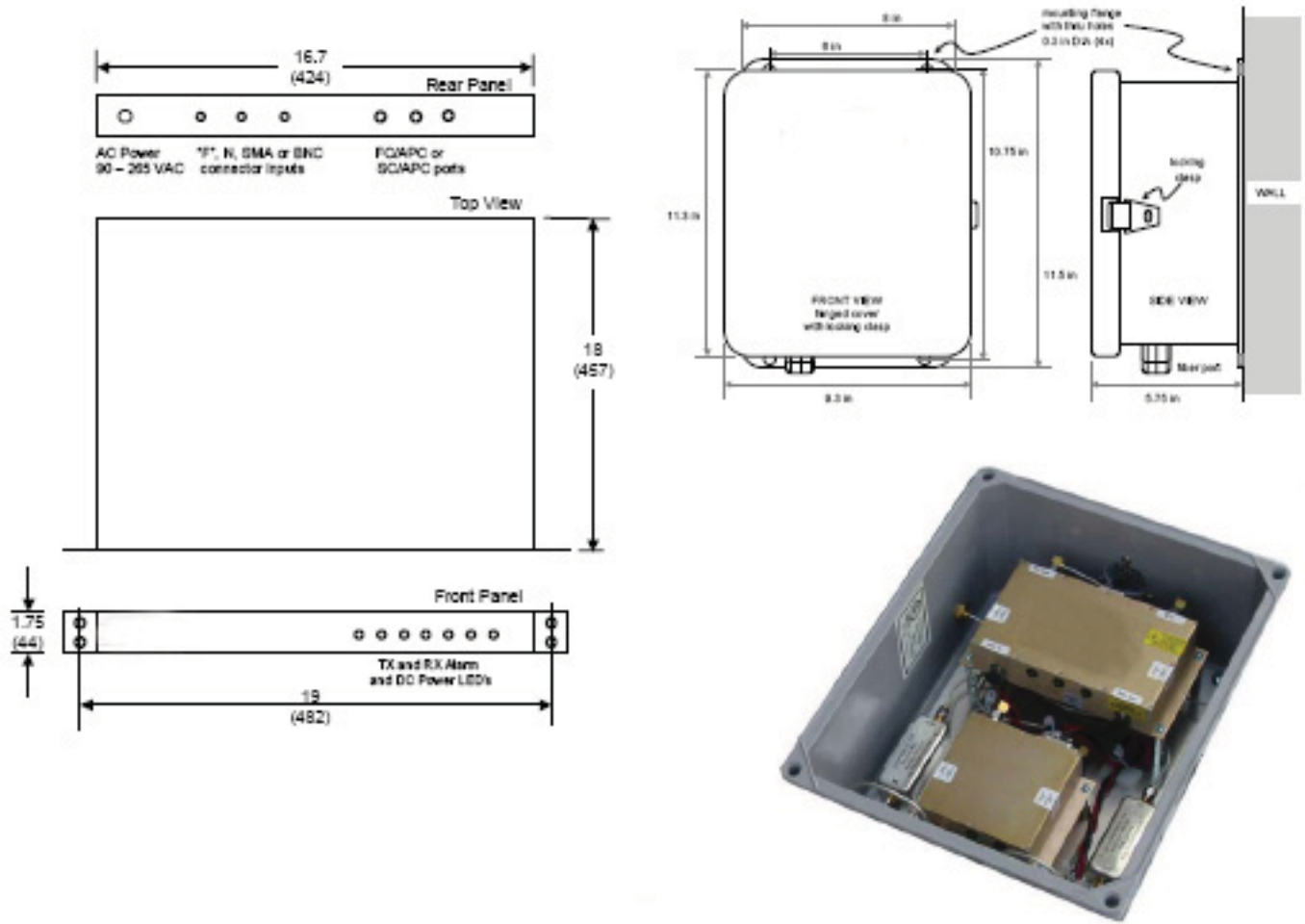
NEMA Weather-proof outdoor enclosure



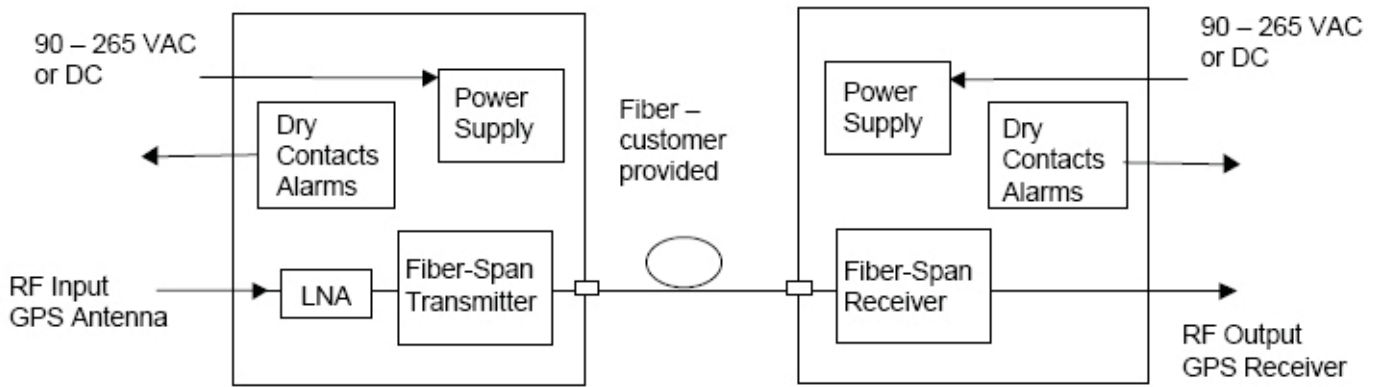
Multi-channel configurations

FS 3000-GPS | Specifications

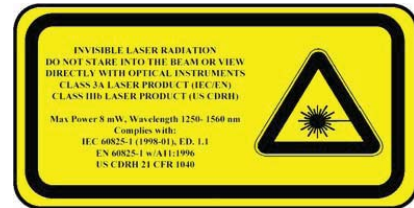
Parameter	
Frequency Range	1565.42 – 1585.42 MHz
Bandwidth	20 MHz
Noise Figure	5 dB
Overall Gain	40 dB
Connectors	RF – N Female, SMA Fiber Optic – FC/APC or SC/APC Power (AC or DC)
Cable	9/125 μ m Single Mode FO cable
Power Consumption	< 50 Watts
Operating Temperature	-20°C to +75°C
Enclosures	19 inch 1U subrack or NEMA
Form Factors	See below



BLOCK DIAGRAM Model FS 3000-GPS



Note: Contact closures for status monitoring are optional.



Identification

Model Number: FS 3000 - GPS Fiber Optic GPS Signal Transmission System

Multiple channel GPS link configurations available. Please consult the Sales Department for other packaging configurations

The information is considered to be accurate, however to provide the best product possible, Fiber-Span reserves the right to make changes and improvements to the specifications without notice.

LITERATURE ORDER CODE: DS3000GPS-01-0208v1