



The IPITEK RF Amplifier Module provides 15 dB of RF signal gain with minimal distortions. When used in conjunction with an RF splitter, this unit allows a single RF signal to drive multiple transmitters.

Two amplifier modules are available; one with a bandwidth from 5-300 MHz and the other from 40-860 MHz. Composite Second Order and Composite Triple Beat distortions are less than -70 dBc with maximum output levels of +40 dBmV/channel. Flatness over the rated bandwidth is  $\pm 0.75$  dB.

Inserting IPITEK amplifier modules into the FSX or DTX Series Chassis enables high quality and cost-effective amplification without sacrificing rack space.

IPITEK 1310 nm DFB Transmitters require a nominal RF input level of +20 dBmV (80 ch. NTSC), and the

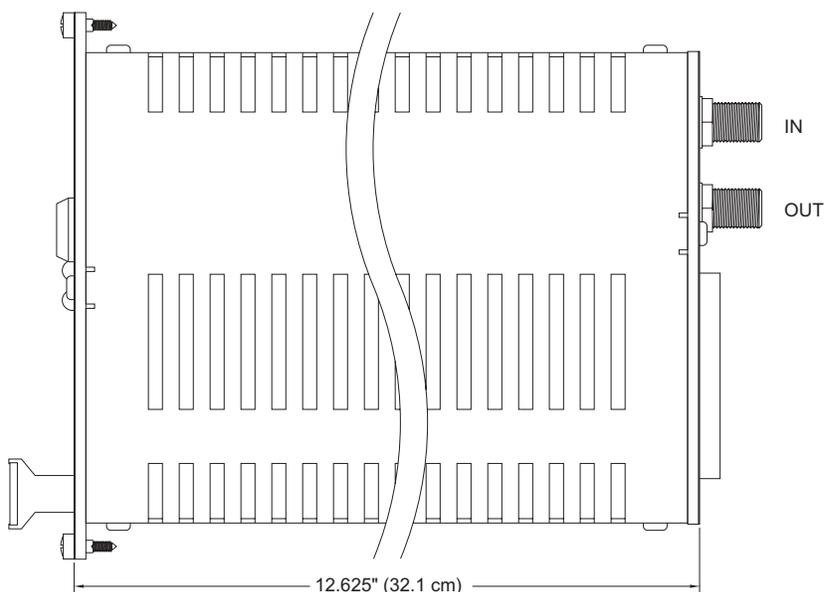
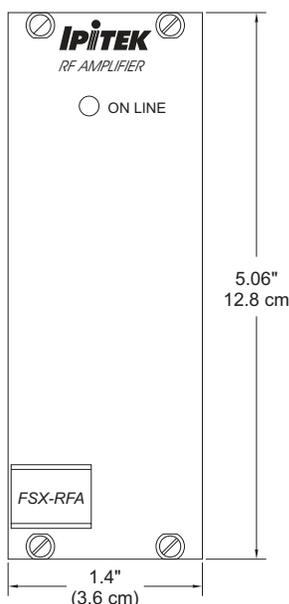
### **FEATURES & BENEFITS**

- Provides 15 dB of Gain
- 860 MHz and 300 MHz Versions
- Versatile Plug and Play Flexibility
- Economical Signal Amplification
- Compact
- Modular Design

FSX/DTX-RXD Receiver provides an RF output of +35 dBmV (0 dBm optical input). This amplifier module is best utilized when the operator needs to drive more than 16 transmitters.

The compact size of the FSX and DTX System Chassis, which houses a series of modular components, including Upstream and Downstream Laser Transmitters and Upstream and Downstream Receivers, RF Amplifiers, Optical Fiber Amplifiers, Optical Switches, Power Supply(s) and Fan Bay, offers superior flexibility while using less space.

## MECHANICAL



## SPECIFICATIONS

### Electrical

Frequency Response:	40 MHz to 860 MHz or 5 MHz to 300 MHz
Flatness:	±0.75 dB
Max. Output Level:	+40 dBmV/ch. for rated distortions
Gain:	+15 dB, ±0.5 dB
CSO*:	≤ -70 dBc (at rated output)
CTB*:	≤ -70 dBc (at rated output)
Connector:	F-Type
Impedance:	75 ohms

### Environmental

Operating Temperature:	0°C to +40°C
Storage Temperature:	-40°C to 70°C
Humidity:	5% to 85% non-condensing
Power Consumption:	8 watts @ 24 VDC
Dimensions	FSX: 1.4" W x 5.06" H x 12.625" D (3.6 cm x 12.8 cm x 32.1 cm) DTX: 1.78" W x 5.06" H x 12.625" D (4.5 cm x 12.8 cm x 32.1 cm)
Weight:	3.5 lbs.

\*Note: specifications are applicable for either an 80 channel (860 MHz version) or 16 channel (300 MHz version) load.

## ORDERING INFORMATION

FSX-RFA	-	XXX	-	G15	-	FT
<b>12-SLOT FSX COMPATIBLE RF AMPLIFIER</b>		<b>Bandwidth</b> 300 = 5 - 300 MHz 860 = 45 - 860 MHz		<b>Gain</b> G15 = 15 dB		<b>RF Connector</b> FT = F-Type
DTX-RFA	-	XXX	-	G15	-	FT
<b>10-SLOT DTX COMPATIBLE RF AMPLIFIER</b>		<b>Bandwidth</b> 300 = 5 - 300 MHz 860 = 45 - 860 MHz		<b>Gain</b> G15 = 15 dB		<b>RF Connector</b> FT = F-Type



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IPiTEK Corporation reserves the right to modify product specifications without prior notification.

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