



INTEGRATED PHOTONICS TECHNOLOGY

ISO 9001 Registered

## DOWNSTREAM RECEIVER

FSX-RXD

DTX-RXD



*FSX Low Power Dual Receiver*

The IPITEK® 860 MHz optical receiver module is the downstream receiver for IPITEK's entire line of fiber-optic DFB transmitters. This flexible plug-and-play module is compatible with all FSX/DTX transmission equipment.

The receiver converts the forward path lightwave signal to RF, and amplifies the signal to a typical output level of +35 dBmV/channel for 0 dBm (low power unit) or +3 dBm (high power unit) received optical power.

RF test points are conveniently located on the module's front panel for easy monitoring of the unit's RF output.

Several optical connector options, such as FC, SC,

### FEATURES & BENEFITS

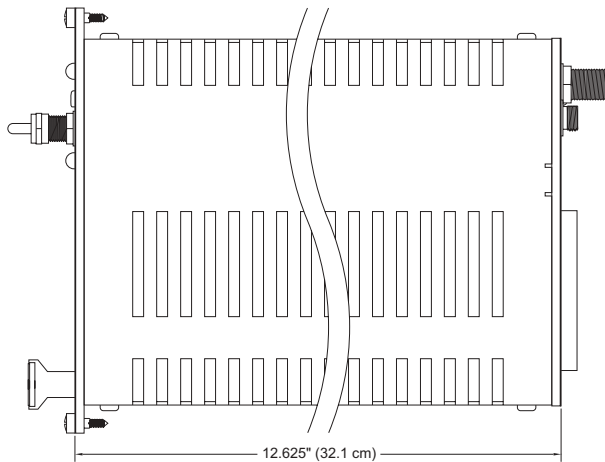
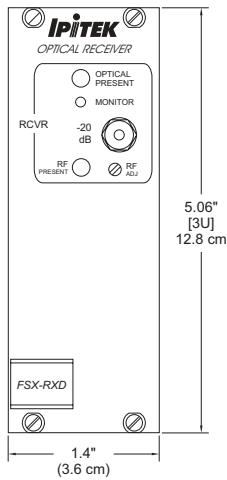
- 40 to 860 MHz Bandwidth
- Low Noise PIN Photodiode Detector
- Versatile Plug and Play Flexibility
- Status Monitoring Capabilities
- Compact
- Convenient RF Test Point
- Modular Design

and E-2000 are offered for the module's easy integration into your system.

The compact sizes of the FSX and DTX System Chassis, which house a series of modular components, including Upstream and Downstream Laser Transmitters and Upstream and Downstream Receivers, Power Supply(s), Optical Switches, EDFA's and Fan Bay, offer great flexibility and minimize your spatial requirements.

Large available bandwidth and a compact design, coupled with IPITEK's commitment to quality, make this inexpensive downstream receiver the choice for your optical transport needs.

# MECHANICAL



FSX High-Power Single Receiver

## SPECIFICATIONS

### High Power (P05) Version

#### Electrical

Frequency Response:	40 MHz to 860 MHz
Flatness:	±0.75 dB
RF Output:	
Level:	+35 dBmV/channel max. for rated specifications (3.6% OMI, +3 dBm)
Connector:	F-Type
Impedance:	75 ohms
Return Loss:	≥ 16 dB (45-750 MHz) ≥ 14 dB (750-860 MHz)

#### Optical

Optical Input Return Loss:	-40 dB max.
Optical Input Level:	-3 dBm to +5 dBm
Equivalent Noise Input:	8pA/√Hz max.
Connector:	FC, SC or E-2000

#### RF Testpoint:

Level:	-20 dB, ±1 dB relative to RF 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:	11 watts

### Low Power (P00) Version

#### Electrical

Frequency Response:	40 MHz to 860 MHz
Flatness:	±0.75 dB
RF Output:	
Level:	+35 dBmV/channel max. for rated specifications (3% OMI, 0 dBm)
Connector:	F-Type
Impedance:	75 ohms
Return Loss:	≥ 16 dB (45-750 MHz) ≥ 14 dB (750-860 MHz)

#### Optical

Optical Input Return Loss:	-40 dB max.
Optical Input Level:	-3 dBm to +2 dBm
Equivalent Noise Input:	8pA/√Hz max.
Connector:	FC, SC or E-2000

#### RF Testpoint:

Level:	-30 dB, ±1 dB relative to RF Output
Connector:	F-Type
Impedance:	75 ohms
RF Isolation(dual):	≥ 45 dB

#### Environmental

Operating Temperature:	0°C to +40°C
Storage Temperature:	-40°C to 70°C
Humidity:	5% to 85% non-condensing
Power Consumption:	11 watts
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)

## ORDERING INFORMATION

**FSX-RXD-860 - PXX - X - N - N - FT - XX - X**

<b>40-860 MHz 12-Slot FSX COMPATIBLE DOWNSTREAM RECEIVER MODULE</b>	<b>Max Input Power</b> P00 = +0 dBm P05 = +5 dBm	<b>Receivers</b> S = Single D = Dual(P00 only)	<b>Pilot Tone</b> N = None	<b>AGC</b> N = None	<b>RF Connector</b> FT = F-Type	<b>Optical Connector</b> FC = FC SC = SC E2 = E-2000	<b>Polish</b> A = APC P = UPC
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**DTX-RXD-860 - PXX - X - N - N - FT - XX - X**

<b>40-860 MHz 10-Slot DTX COMPATIBLE DOWNSTREAM RECEIVER MODULE</b>	<b>Max Input Power</b> P00 = +0 dBm P05 = +5 dBm	<b>Receivers</b> S = Single D = Dual(P00 only)	<b>Pilot Tone</b> N = None	<b>AGC</b> N = None	<b>RF Connector</b> FT = F-Type	<b>Optical Connector</b> FC = FC SC = SC E2 = E-2000	<b>Polish</b> A = APC P = UPC
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IPITEK reserves the right to modify product specifications without prior notification.

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