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Telcosat FPT-5000 RF Over Fibre Cellular Extender



The FPT-5000 is a carrier class cellular fiber optic extender and repeater for LTE, CDMA, GSM and AMPs. The unit converts RF signals to fiber optic for long distance transport which are then converted back to RF. When used in conjunction with the [RPT-900 Cellular Repeater](#), the FPT-5000 allows antennas to be mounted at distances not possible with coax and heliax cabling. Antennas can now be mounted kilometers/miles away from the RPT-900 Cellular Repeater. The FPT-5000 can also be used with other 3rd party RF devices and applications. Like all Telcosat products, the FPT-5000 is engineered and manufactured in Canada.

If you have any questions regarding cellular extender applications, please [contact us](#) today and a member of our design team would be pleased to assist you.

TELCOSAT FTP 5000 RF OVER FIBRE

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Advantages of RF Over Fibre

RF Over Fibre is an ideal replacement for coaxial cable technology:

- Significantly reduce weight when compared to coax
- Prevent lightning strikes passing to your equipment,
- Reduced wind loading on towers,
- Allows for remote location of antennas.
- Fibre cable is far less visible than a coax cable and will not detract from the aesthetics of your building.

Telcosat FPT-5000 Technical Specifications

Frequency Range – Up to 4GHz

RF Gain at 0 dB Optical Loss - 0.4 dB / km

Gain Accuracy - ± 1 dB

Gain Flatness Across Band - ± 1 dB

Gain Slope - < 0.7 dB / 36 MHz

Gain Adjustment Range - ± 3 dB

Gain Stability Over Temp. Rx / Tx - $< \pm 3$ dB Over Operating Temp. Range

Input TOI @ 1.2 GHz - ± 3 dB

Noise Figure @ 1.2 GHz - < 36 dB, 0dB Optical Loss

Carrier to Noise Ratio @ 1.2 GHz - > 65 dB, 0dB Optical Loss

Input / Output Impedance, VSWR - 50 W, VSWR $< 1.5 : 1$ (14 dB Minimum)

RF Connectors - N Type, Female

Optical Connectors - Suhner E2000 Single Mode Angle Polished

Current Consumption - Rx < 150 mA, Tx < 180 mA

Abs. Maximum RF Input (Tx) - $> +15$ dBm, 5 VDC

Wavelength - 1310 ± 20 nm

Power Output - $+4$ dBm, 3mW Nominal

Operating Temperature - -10°C - $+50^{\circ}\text{C}$

Storage Temperature - -40°C - $+70^{\circ}\text{C}$

Power Supply - 90 - 230 VAC, DC Optional

Unit Size - 14.5 x 16.5 x 11.5", 36 x 41 x 29 cm

Weight - 22 lbs, 10 kg Typical