

microwave photonic systems

MP-8021 SERIES: Wideband Bidirectional Fiber Optic Link



Single Fiber Solution Offers Frequency Agile Bidirectional Transceiver w/ RF Detection & Auto T/R Switching Capability

The MP-8021 series transceiver provides a highly agile solution for Systems Engineers and Network Managers to rethink classical bidirectional radio deployment architectures as well as future wireless topologies. The MP-8021 has been designed to offer a multitude of user adjustable performance parameters such that it can be used as a plug-and-play component for remoting RF signal traffic from 10 MHz to 6 GHz. The ability to adjust the MP-8021 systems characteristics such as (Gain, Noise Figure, Input Compression) allows for a neutral host solution which can be integrated with industry radio transceiver equipment spanning the commercial 3G, 4G, LTE markets as well the Unmanned Vehicle community.

A unique feature of the MP-8021 series transceiver is the integrated optical gain control circuit with an optical dynamic range of 10 dB. This feature ensures that full link performance, and rated RF power is delivered when two transceivers are connected, independent of the site to site variations that may exist in the optical cable plant.

The MP-8021 is available as a pre-configured solution optimized to integrated with radio sets such as the Piccolo Radio by Cloud Cap Technologies* (restricted and unrestricted bands), RT-1944U, and 802.11 compliant radios. Please contact Microwave Photonic Systems to speak with an applications engineer to provide detailed technical specifications.

Information: Call us toll-free at 888-868-8967 or email info@b2bphotronics.com

Applications:

- Wireless Data Distribution
- Software Defined Radio Remoting
- Airborne Global Information Grid
- 802.11 Remoting
- 3G / 4G / LTE Networking

Market Segments

- In-Building Distributed Antenna Systems
- Fiber to the Tower (FTTT) / FTTx
- Tactical Radio Network Centers
- UAV Ground Station Controllers
- Tethered Drones & Aerostat Operations
- EMC Compliance (Anechoic Chambers)

Standard Features:

- Small Form Factor Flange Mount
- User Uplink / Downlink Path Optimization
- Adjustable Thresholds for T/R Switch
- Integrated BIT Diagnostics
- Variable RF Gain Control
- Local Status LEDs for Power, Alarm, Data
- Remote 485 Serial Status Monitoring

Optional Features:

- Dual Redundant Fiber Channel
- Harsh Environment Connectors
- MIL-461 / 810 Qualified to +85C Operation
- 26 GHz Upper Frequency Range
- Optical AGC for 10 dB Optic Loss Budget
- Integrated Low Noise Amplifier



Airborne UAV Qualified Variant

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