



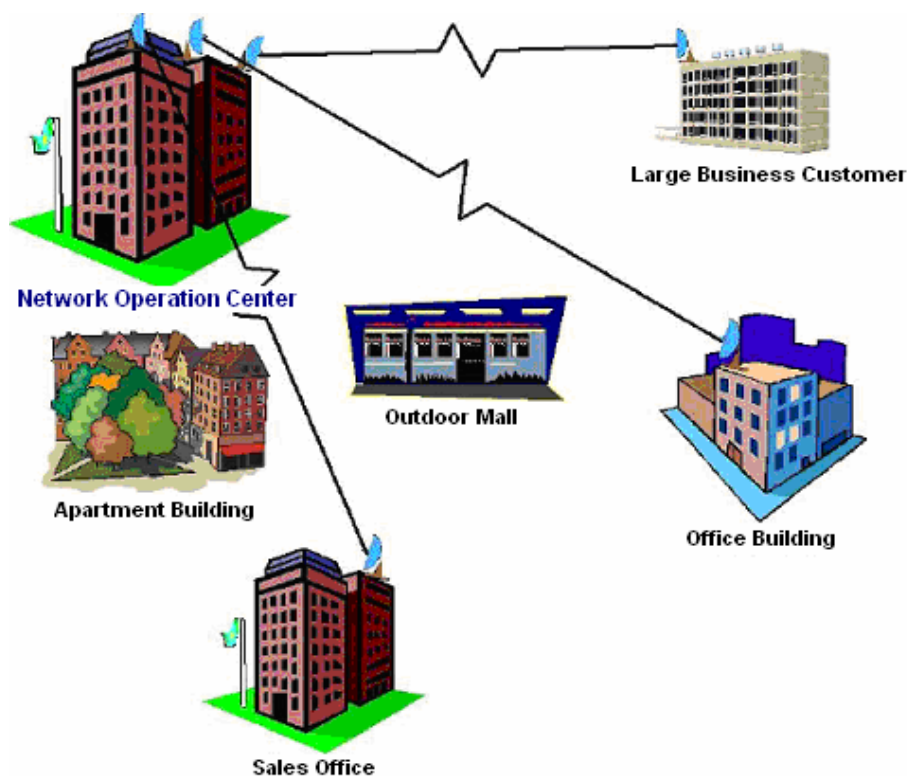
PointRed Telecom
Smart Connectivity...



PRODUCT HIGHLIGHTS

- Easy to install and operate.
- Efficient lease line replacement.
- Minimal infrastructure costs.
- Affordable broadband in areas where DSL and cable are too costly to install.
- Point-to-Point operation capability for backhaul application.
- SNMP based embedded Network Management System.
- All Microwave parameters software programmable.
- Excellent MTBF.
- Convention cooling for indoor and outdoor equipment.

The MicroRed product family provides extremely cost effective Point-to-Point connections. The MicroRed product family is available in a large variety of frequency bands and can be equipped with Ethernet or balanced and unbalanced E1 interfaces. This allows the MicroRed products to easily replace leased line services in most cases by just changing from the currently provided connection to one of the versatile PointRed interfaces. This change over is easily done since the MicroRed systems utilize a real plug and play approach where the end customer doesn't need to install any software on his PC.



Due to the advanced implementation of Time Division Duplex in the wireless domain the MicroRed products can operate on a single channel and do not need a guard band between the transmit and receive signals. This allows Network operators to implement far more systems using the MicroRed products compared to Frequency Division Duplex products.

India

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*All Product information is subject to change without any notice

Point-to-Point Product Specifications

Digital Interface:

- Ethernet 10Base-T equipped with RJ-45 connectors or
- E1 per ITU-T G.703
 - 120 Ohm balanced shielded RJ-45
 - 75 Ohm unbalanced mini SMB connectors
 - HDB3 Digital Line code
- 1E1 per G.703

NMS Interface:

- Telnet
- SNMP MIB Agent
- MicroRed GUI (Optional)

Local Interface:

- Command Line Interface, RS232 on RJ-45

Visual Alarm Indicators (LED):

- Receive Signal
- Transmit Signal
- Los of Signal
- Los of Frame
- Alarm Indication Signal

Power Supply:

- Power Consumption: 17 Watt
- Power Supply:
100/ 240 VAC with 50/60 Hz
-48VDC optional

Mechanical Specifications:

- Indoor Unit Dimensions:
430X205X80 mm for the 19 Inch Rack Mount Unit
- Transceiver Dimensions:
165X165X40mm
- Antenna Interface: N Connector 50 Ohm Female
- Environmental:
-5°C to +40°C at 95% humidity for the Indoor unit
-33°C to +60°C at 95% humidity (all weather operation) for the Transceiver unit
- Convention cooling for Indoor and Outdoor Units.

RF Specifications:

- Currently available Frequency Bands:
2.2 - 2.3GHz
2.3 - 2.4GHz
2.4 - 2.5GHz
2.5 - 2.7GHz
2.7 - 2.9GHz
3.4 - 3.6GHz
5.7 - 5.8GHz
Frequency settable via Software in each band
- Power Control: $\geq 20\text{dB}$
- Output Power:
2.2GHz: +24dBm guaranteed, +26dBm typical
2.3GHz: +23dBm guaranteed, +25dBm typical
2.4GHz: +25dBm guaranteed, +27dBm typical
2.5GHz: +25dBm guaranteed, +27dBm typical
2.7GHz: +25dBm guaranteed, +27dBm typical
3.5GHz: +23dBm guaranteed, +25dBm typical
5.8GHz: +21dBm guaranteed, +23dBm typical
- Occupied Bandwidth: 6MHz
- Receiver Sensitivity: -75dBm @ 10^{-6} BER
- Range: 30Kms
- End-to-End Delay: 4ms
- Time Division Duplex
- One 75 Ohm RG-6 cable with F-Type connectors between indoor and outdoor unit
- ODU RF Interface: N-Type Female



WiMAX
FORUM

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Certified ISO 9001:2000 Company

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