



PointRed Telecom Pvt. Ltd.
Smart Connectivity...



PRODUCT HIGHLIGHTS

Scalability:

- Scalable base station supports one or multiple sectors per installation
- Support for up to 500 subscriber stations per sector

Performance:

- Supports channel bandwidth up to 10MHz
- Support for large user base with high data rates up to 30 Mbps

Flexibility:

- Automatic adjustment of modulation scheme based on signal quality
- Supports 3.3-3.6 GHz frequency band

Security:

- High data security with encrypted transmission using 56-bit DES, and 128-bit AES

Network Availability:

- Advanced OFDM technology insures NLOS operation over 3Kms, LOS operation over 30Kms

Powerful Management:

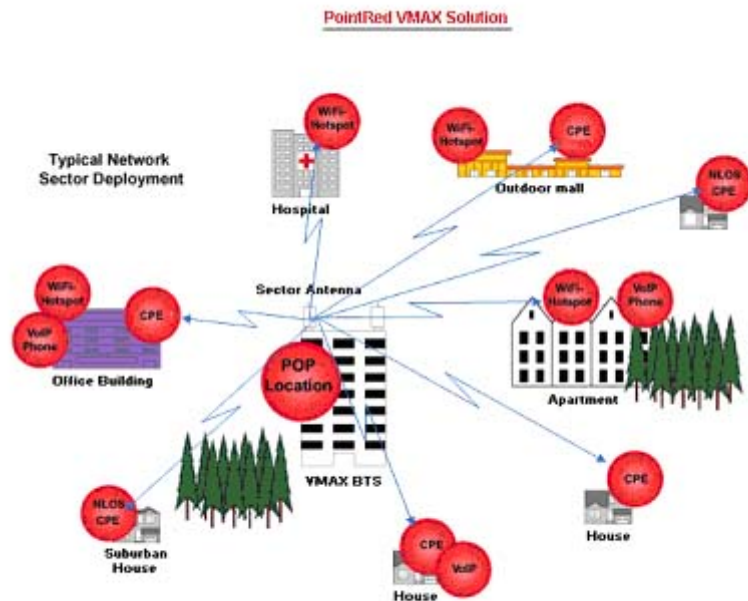
- End-to-end QoS support for VoIP, video delivery, and differentiated data services

Future-Proof Investment:

- Field-programmable encryption algorithms for future security upgrades
- Over-the-air upgrades for hardware and software feature upgrades

The VMAX Base Station is a cost-effective, scalable, WiMAX-ready Base Station solution providing Point to Multipoint (PtMP) broadband wireless access service to one or multiple sectors. It is easy to install, supports 3.3-3.6 GHz frequency band and supports up to 500 subscriber stations per sector. Its end-to-end QoS support for VoIP, video delivery, and differentiated data services provides for high quality data, voice and video services.

The VMAX 6000 Base Station was built from the ground up as a modular upgradeable solution for configuration flexibility and investment protection as your needs grow. Built-in security, manageability and reliability features make it ideal for any type of wireless network.



India

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*All Product information is subject to change without any notice

VMAX Base Station 3.3-3.6 GHz Product Specifications

System Specifications

Model	: VMAXBTS 6000
Frequency Band	: 3.3-3.6 GHz
Channel Bandwidths	: 1.75, 3.5, 7 & 10 MHz
Duplexing Method	: Time Division Duplexing (TDD)
Over the Air Data Rate	: 50Mbps
Maximum System Throughput	: 30Mbps
Range	: NLOS (over 3Kms), LOS (over 30Kms)
No. of Subscribers	: Up to 500 Subscriber Stations per sector
Spectral Efficiency	: 5bps/Hz (64 QAM)
MAC	: 802.16 – 2004 PMP
PHY	: OFDM 256 FFT
Number of Service Flows	: 16 Service Flows per Subscriber Station
ARQ	: Support based on 802.16 – 2004
DFS Support	: Available
Port Interfaces	: 1 RJ45 10/100 Base-T Ethernet Connector
Network Services	: Transparent Wireless Ethernet Bridge
Network Protocols	: 802.16-2004, 802.3X Ethernet Flow Control, 802.1d Bridging & STP, 802.1p priority queuing, 802.1Q VLAN, DHCP, HTTP, SNMP, Telnet, TFTP
Indicators	: LED's for DC Power, Wireless Link, Receive Signal Strength, Ethernet Link/Activity status

Security

Authentication	: 802.16 – 2004
Data Encryption	: DES 56-bit CBC-mode and AES 128-bit mode

RF Specifications

Maximum Transmit Power	: 23 dBm
Receive Sensitivity	: Better than -90 dBm@BPSK1/2(based on BER 1 x 10 ⁻⁶) Better than -72 dBm@64QAM (based on BER 1 x 10 ⁻⁶)
Antenna Options	: 60°, 16 dBi Sector Antenna 90°, 15 dBi Sector Antenna 120°, 15 dBi Sector Antenna 360°, 8 dBi Omni-directional Antenna

Power & Environmental

Power Source	: Power over Ethernet
DC Power	: 0.6A @ 36VDC maximum
Operating Temperature	: -40°F to 130°F
Humidity	: 0 – 95% non-condensing

Dimensions

Height	: 26Cms
Width	: 25Cms
Depth	: 7.6Cms excluding mount
Weight	: 3.2Kgs
Mounting	: Pole Mount

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