



**PointRed Telecom Pvt. Ltd.**  
Smart Connectivity...



## PRODUCT HIGHLIGHTS

### Performance:

- Supports channel bandwidth up to 10MHz
- Support for large user base with high data rates up to 30 Mbps
- Automatic adjustment of modulation scheme based on signal quality

### Low Cost:

- Simple installation, easy to mount
- Supports 3.3-3.6GHz frequency band
- Single Cat5 cable connection with Power over Ethernet
- Integrated antenna and modem in one single unit

### 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

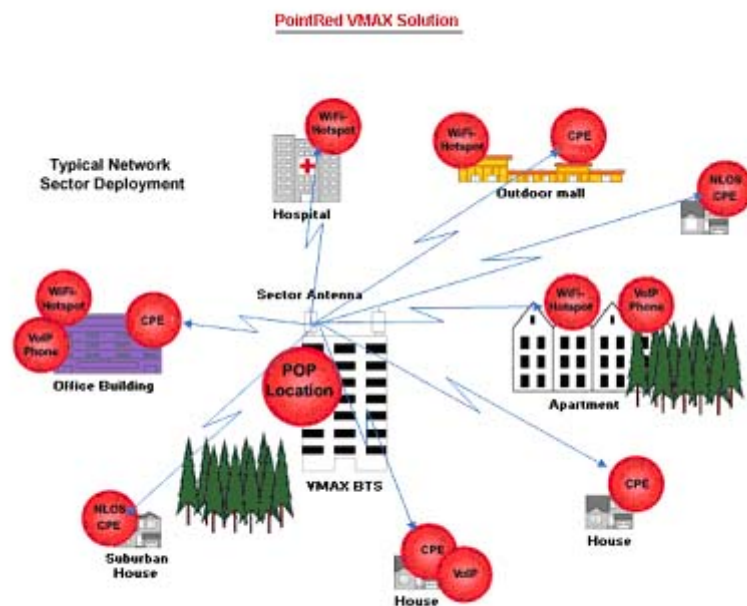
### Future-Proof Investment:

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

The VMAX Subscriber Station delivers high-speed always-on integrated voice. Video and data services to business and residential customers. This outside unit is compact, simple to install, connects directly to the subscriber's PC or network via a standard Ethernet cable and supports numerous hosts.

The VMAX2000CPE Subscriber Station was built from the ground up as a fully integrated, cost effective single unit for the deployment of a large number of Subscriber Stations. Built-in security, manageability and reliability features make it ideal for any type of wireless network.

The VMAX2000CPE provides for efficient use of bandwidth by delivering data rates up to 30Mbps within a 10MHz channel.



## India

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\*All Product information is subject to change without any notice

## VMAX Base Station 3.3-3.6GHz Product Specifications

### System Specifications

Model	: VMAXCPE 2000
Frequency Band	: 3.3-3.6GHz
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)
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
Modulation Schemes	: Adaptive modulation using BPSK, QPSK, 16 QAM, 64 QAM
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 <sup>-6</sup> ) Better than -72 dBm@64QAM (based on BER 1 x 10 <sup>-6</sup> )
Antenna Options	: Integrated Flat Panel, 10 <sup>0</sup> , 21 dBm

### 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	: 47Cms
Width	: 47Cms
Depth	: 8.25Cms excluding mount
Weight	: 2.75Kgs
Mounting	: Pole Mount

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