



VCom® Inc.

VistaMAX OSR3500

3.5 GHz Subscriber Transceiver

The **VistaMAX OSR3500** is a WiMAX / IEEE 802.16-2004 outdoor subscriber station. The OSR3500 is contained in a weatherproof, sealed housing with integrated antenna to offer a single box solution for WiMAX applications in the 3300 to 3800 MHz band. External antennas can be accommodated with an optional N female connector. The OSR3500 offers a direct bridged 100BaseT Ethernet connection to the subscriber station network. The only equipment inside the subscriber premises is a midspan Power over Ethernet power injector (VPNCPE/POE) to supply power and provide Ethernet connectivity to the OSR3500.

Supported Applications

- *Tiered Residential Internet Access*
- *Voice over IP*
- *Cellular Backhaul*
- *Enterprise Data Access*



Features

- **802.16-2004 OFDM Compliant PHY & MAC** → Standards based radio
- **Time Division Duplexing (TDD)** → Maximum spectrum efficiency & lowest cost
- **Half Duplex FDD (HFDD) available** → Can be used in FDD systems
- **Fast adaptive modulation** → Maximizes range & capacity
- **Power over Ethernet** → Convenient single cable connection
- **Integrated lightning protection** → Reduced downtime and maintenance costs

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Advanced Broadband Products

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RF

Frequency	3300 to 3800 MHz
RF Frequency Step Size	250 kHz
Duplexing Mode	TDD or HFDD
Channel Bandwidth	1.75, 3.5, 7 MHz (Software Selectable)
Modulation Types	IEEE 802.16-2004, OFDM256, burst by burst adaptive BPSK-1/2 QPSK-1/2, QPSK-3/4 16QAM-1/2, 16QAM-3/4 64QAM-2/3, 64QAM-3/4
Maximum Rated Output Power	+38 dBm EIRP
Spectral Mask Compliance	Industry Canada RSS-192 ETSI EN 301 021 v1.6.1
Minimum sensitivity, 1.75 MHz	-97 dBm
Minimum sensitivity, 3.5 MHz	-94 dBm
Minimum sensitivity, 7 MHz	-91 dBm
Integrated Antenna	18 dBi, 18 deg

Network

LAN Interface	10/100BaseT 802.3 Ethernet
Bridged MAC Addresses Supported	Up to 63
Management/Monitoring Interfaces	SNMP (WiMAX Forum MIBs + VCom extensions) Built-in HTTPS web server Telnet/SSH CLI Syslog

Operational Parameters

EMC/EMI	ETSI EN 301 489-1
Lightning Protection	Built-in
Power Supply	Requires IEEE 802.3af-compliant Power over Ethernet (VPNCPE/POE ordered separately)
Power Consumption	12.5 W maximum

Mechanical

Operating Temperature	-45°C to +55°C
Physical	12" x 12" x 3" (30.5cm x 30.5cm x 7.7cm) maximum
Mounting	Pole mount (1" to 1.75" diameter pole)
Weight	5 lbs. (2.3 kg) maximum
Weatherproofing	NEMA 4X/IP66