

The **VistaMAX OSR3650** is a WiMAX / IEEE 802.16-2004 outdoor subscriber station. Contained in a weatherproof sealed housing with integrated antenna, the OSR3650 offers a single box solution for WiMAX applications in the 3650 to 3675 MHz band. External antennas can be accommodated with an optional N female connector. The OSR3650 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 to supply power and provide Ethernet connectivity to the OSR3650.



### Supported Applications

- *Tiered Residential Internet Access*
- *Voice over IP*
- *Cellular Backhaul*
- *Enterprise Data Access*
- *Video Backhaul*
- *SCADA & Site Monitoring*

### Features

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

## Radio

Product Operation	LOS, NLOS Point-to-Multipoint Subscriber Unit		
Frequency	3650 to 3675 MHz		
Frequency Step Size	250 kHz		
Duplexing Mode	TDD		
Channel Bandwidths	3.5 MHz, 7 MHz, Software Selectable		
Modulation Types	OFDM (BPSK, QPSK, 16-QAM, 64-QAM)		
Rated Output Power	Up to +20 dBm		
Output Dynamic Range	30 dB		
Receiver Sensitivity typical for BER <10 <sup>-6</sup>	Burst type	3.5MHz	7MHz
	BPSK 1/2	-94	-91
	QPSK 1/2	-91	-90
	QPSK 3/4	-90	-87
	16-QAM 1/2	-87	-84
	16-QAM 3/4	-84	-81
	64-QAM 1/2	-80	-77
	64-QAM 3/4	-78	-75
Integrated Antenna	Optional 17 dBi or 20 dBi flat panel antenna		

## Data Communications

RF	IEEE 802.16-2004
Data	IEEE 802.3 CSMA/CD
VLAN Support	IEEE 802.1Q

## Management

LED Display	Signal strength / power
Network Protocol	TCP/IP
Subscriber Unit Monitoring	SNMP, Web-based GUI, Telnet, SSH
Subscriber Unit Management	Web-based GUI
Ethernet Connector	10/100Base-T (water tight RJ-45) Designed to exceed IP67/NEMA 6

## Physical and Environmental

Dimensions	9.75" x 10" x 2.25" (248 mm x 254 mm x 57 mm)
Weight	3lbs (1.35kg)
Operating Temperature	-45°C to +55°C (-49° F to 131° F)
Power Requirement	IEEE 802.3 (PoE) and Auxillary PoE

## Standards and Regulations

EMC: EN 301 489-1, EN 301 489-4, EN 55022/CISPR 22 RF: EN 301 021, EN 301 753, Industry Canada: RSS-192

## Ordering Information

OSR3650C/NIA+	CPE, WiMAX, Outdoor, 3650-3675MHz, NoAnt, ROHS
OSR3650C/17+	CPE, WiMAX, Outdoor, 3650-3675MHz, 17dBi, ROHS
OSR3650C/20+	CPE, WiMAX, Outdoor, 3650-3675MHz, 20dBi, ROHS



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