



VistaMAX Starter Kits

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The 3.5 GHz VistaMAX Starter Kit by Vecima Networks is designed to enable operators to assess the performance and capabilities of the WiMAX standard in general and of Vecima Networks' VistaMAX product family. VistaMAX is ideal for providing last mile access or for offering broadband connectivity. The starter kits include all the cabling and peripheral equipment necessary for the operator to deploy.



Designed and manufactured by Vecima Networks, the VistaMAX is based on the IEEE 802.16-2004 standard and currently operates in frequencies between 3300 and 3800 MHz. Both the VistaMAX base and subscriber stations are contained in a weatherproof sealed housing. The base station has an integrated 60, 90 or 120 degree antennas to offer a single box solution for WiMAX applications. External antennas can be accommodated with an optional N female connector. VistaMAX is a state of the art solution that can be deployed rapidly and is suitable for temporary or permanent installations where high speed data, voice or video services are required.

2 VistaMAX Features

- Up to 21.7 Mbps
- Time Division Duplexing (TDD)
- Software selectable channel bandwidths of 1.75, 3.5 and 7 MHz
- Integrated GPS synchronization
- True non line-of-sight performance
- Fast adaptive modulation (BPSK, QPSK, 16QAM or 64QAM) for both uplink and downlink
- Power over Ethernet for convenient single cable connections

3 Starter Kit Options

	Platinum	Gold	Silver	Bronze	Basic
OBR3500 (Outdoor Base Station)	4	1	1	1	1
OSR3500 (Outdoor Subscriber Station)	12	5	5	5	5
NMS8000 / SSP (Management Server)	1	1	1	1	-
Training and installation	3 day ¹	Onsite ²	3 day	-	3 day
Price³	\$33,999	\$18,499	\$14,499	\$12,499	\$10,499

¹ 3 day VistaMAX training for 4 people at Vecima's Saskatoon facilities.
² 3 day training provided by Vecima engineer at your location, some exceptions apply.
³ All pricing is in US\$ and is subject to change. Please request a current quote prior to ordering.

4 3.5GHz VistaMAX Specifications

	OBR3500	OSR3500
RF		
RF Frequency	3300 to 3400 MHz 3400 to 3650 MHz 3600 to 3800 MHz	3300 to 3800 MHz
Maximum Rated Output Power	+45 dBm EIRP (60° integrated antenna) +43 dBm EIRP (90° integrated antenna) +42 dBm EIRP (120° integrated antenna) +28 dBm at external antenna connector	+38 dBm EIRP
Spectral Mask Compliance	Industry Canada RSS-192 ETSI EN 301 021 v1.6.1	Industry Canada RSS-192 ETSI EN 301 021 v1.6.1
Network		
LAN Interface Bridged MAC Addresses Supported Management/Monitoring Interfaces	10/100BaseT 802.3 Ethernet 1024 SNMP (WiMAX Forum MIBs + Vecima Networks extensions) Built in HTTPS web server Telnet/SSH CLI Syslog	10/100BaseT 802.3 Ethernet Up to 63 SNMP (WiMAX Forum MIBs + Vecima Networks extensions) Built in HTTPS web server Telnet/SSH CLI Syslog
Operational Parameters		
No. of Subscribers Supported EMC/EMI Lightning protection Power Supply	1024 ETSI EN 301 489-1 Multi-strike protection built-in 36 to 56 VDC Power over Ethernet	- ETSI EN 301 489-1 Built-in Requires IEEE 802.3af-compliant Power over Ethernet
Power Consumption	45 W maximum	12.5 W maximum
Mechanical		
Operating Temperature Physical Mounting Weight Weatherproofing	-45°C to +55°C 20" x8" x5" (50.8cm x20cm x12.7cm) Pole mount (2.5" to 4.5" diameter pole) 20 lbs. (9 Kg) -	-45°C to +55°C 12" x12" x3" (30.5cm x30.5cm x7.7cm) Pole mount (1" to 1.75" diameter pole) 5 lbs. (2.3 Kg) NEMA 4X/IP66

5 NMS Feature Set

Secure Web Interface Connection (HTTPS)

Different access levels for users (Customizable read/write for each NMS feature set)

Network Monitor

Up to date information per subscriber (Configurable update time for all IP and RF stats)
 System alarm and warnings (Notifications from state changes of monitored devices)
 Application server monitoring (ICMP, SMTP, POP3, and HTTP)

System Level Services

Define QoS service packages, service flows and classifiers
 Add/Remove BS and registered SS
 Configure as DHCP server
 Set SNMP v2c strings
 Monitor POP3, SMTP, ICMP, and HTTP services

Subscriber Monitor

Numerically and graphically displays RF parameters per SS
 Graphical uplink and downlink SS byte usage per SS

Geographical Interface

Map available with all SS and BS locations

Reports

Online Change (1,2,7 day)
 All users throughput (2 day 5 minute average)
 Base station throughput
 CPE-IP per SS (IP addresses of host devices)
 DHCP lease report
 All subscriber monthly byte usage
 SS distance (Customer name, SS distance & bearing to BS)

VistaMAX Base Station Power Requirements

OBR3500 (3.5 GHz)							
Sectors	Operating Current (Amps)	Peak Current (Amps)	Operating Power (W)	Peak Power (W)	Total Operating Power (W)*	Total Peak Power (W)*	
0	0.89	2.19	42.72	105.12	442.72	505.12	
1	1.26	2.56	60.48	122.88	460.48	522.88	
2	1.63	2.93	78.24	140.64	478.24	540.64	
4	2.4	3.7	115.2	177.6	515.2	577.6	
8	3.87	5.17	185.76	248.16	585.76	648.16	
OBR1900 (1.9 GHz)							
1	1.31	2.75	62.88	132	462.88	532	
2	1.71	3.16	82.08	151.68	482.08	551.68	
4	2.54	3.97	121.92	190.56	521.92	590.56	
8	4.18	5.61	200.64	269.28	600.64	669.28	

*Total power includes NMS power of 400W at 48V and 8.3Amps