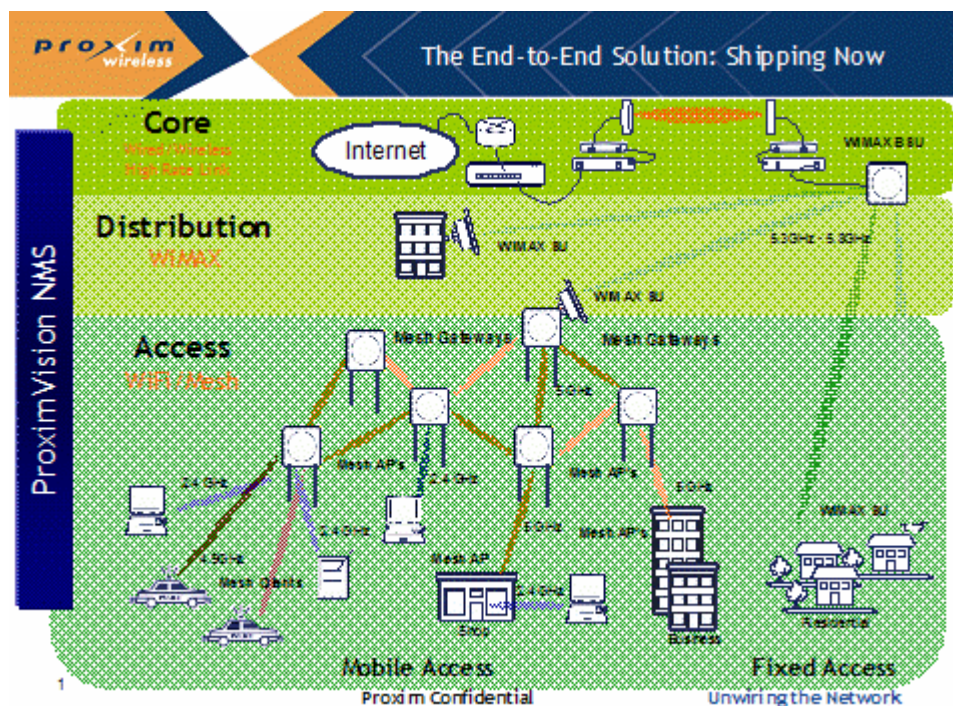




International Communications & Engineering's MeshMAX

December 31, 2007

As the market demand for mobile connectivity, network scalability and investment protection with a migration path for future development in WiMAX technologies increases, there is an escalating need for wireless broadband solutions to provide best of breed in wireless distribution and access technologies. ICE's MeshMAX product line integrates three technologies in one unit!



The new MeshMAX product is a tri-radio, outdoor device offering Wi-Fi connectivity for access, Wi-Fi mesh gateway for network redundancy and a high capacity, carrier-class WiMAX link for backhaul. The convergence of these three technologies delivers end-to-end QoS for triple-play applications, a reduction in total cost of ownership and investment protection

for future developments in WiMAX. The MeshMAX Series consists of two versions. MeshMAX Model 3500WM includes one radio for WiMAX backhaul, one radio for Wi-Fi Mesh and one radio for 802.11b/g Wi-Fi access. Expanding the Wi-Fi coverage, Model 3500W will use one radio for WiMAX backhaul and two radios for tri-mode Wi-Fi access, supporting 802.11a and 802.11b/g clients. The MeshMAX Series provides an optimal solution which brings internet connectivity and applications to where the customers are and where they want to be.

Experienced in WiMAX and Wi-Fi Applications

Drawing on Proxim's, HITS, and ICE's expertise in WiMAX and Wi-Fi Mesh Technologies, the MeshMAX product line encapsulates the best in class features of the award-winning Tsunami WiMAX and ORiNOCO mesh product families. Proxim and ICE are uniquely positioned to offer

this leading-edge product given our extensive experience in delivering Wi-Fi and WiMAX solutions.

- End-to-end product portfolio consisting of WLAN, Wi-Fi Mesh, WiMAX and Point-to-Point
- Based on WiMAX Forum Certified Tsunami MP.16 and Wi-Fi certified ORiNOCO access points
- Tri-radio design provides one radio for WiMAX backhaul for distribution, one radio for Wi-Fi mesh link and one radio for exclusive Wi-Fi access traffic
- End-to-end QoS from access to distribution to support voice and video
 - IEEE 802.11e draft QoS support for access and enhanced QoS on mesh link
 - IEEE 802.16e QoS support for WiMAX wireless backhaul link
 - 802.1D to 802.1p priority mapping and 802.1D to IP DSCP mapping
- Low latency enables VoIP
- Enhanced security with AES encryption protects over the air transmission on all three links
- Scalable, flexible end to end solutions allow for ease in expansion of network
 - Service Provider can expand WiMAX network coverage with MeshMAX by extending their network utilizing Wi-Fi mesh
 - Enterprise WiMAX subscribers can extend internet access to local clients through Wi-Fi hotspot

Simplifies Network Architecture, Deployment and Management

Reducing network complexity, minimizing time of deployment and increasing ease of installation, the MeshMAX accelerates the network operator's time to money.

- Less nodes to install deploy and manage
- Single management interface reduces time for service and support
- Centralized remote management support with Network Management System
- Provides consistent deployment and user experience to Tsunami™ MP.11, Tsunami MP.16 and Orinoco Mesh Access Point product lines
- Reduces downtime and network troubleshooting compared to multi-vendor WiMAX and Wi-Fi Mesh network

Significantly Reduces Total Cost of Ownership (TCO)

- Lowest deployment cost per square mile
- Reducing the number of nodes decreases installation and management time and minimizes associated costs
- Low power consumption and solar power options reduce operating expenses

Investment Protection

WiMAX and mesh networks consisting of the Tsunami WiMAX products, Orinoco Mesh Access Points and MeshMAX (IEEE 802.16e) radios enable a service provider to establish a customer base and capture a head start on securing the WiMAX mobile market.

- Current MeshMAX product features WiMAX QoS and 802.16e class roaming with unprecedented mobility capabilities
- MeshMAX platform enables support of all mobile WiMAX and Wi-Fi clients

Outdoor Broadband Wireless Access

ICE and Proxim Wireless offers the industry's most complete suite of outdoor broadband wireless access products.

This portfolio includes:

- **Tsunami™ MP.11** –

Capabilities of fixed and mobile WiMAX for U.S. and global markets

- **Tsunami™ MP.16** –

WiMAX for the 3.5 GHz frequency band

- **ORiNOCO® Wi-Fi Mesh** –

Outdoor and indoor Wi-Fi mesh for service providers and municipalities

Proxim Wireless and International Communications & Engineering LLC along with HITS is a global pioneer in scalable broadband wireless networking. >From Wi-Fi to wireless Gigabit Ethernet – our WLAN, mesh, point-to-multipoint and point-to-point products are available through our extensive global network.



International Communications & Engineering's MeshMAX Comparison Chart December 31, 2007

Comparison Data	Hot Spot - RedMAX Base Station (AN-100U)	ICE - MeshMAX™	Best
System Capability:	LOS, Optical LOS, non LOS; Cellular-based point-to-multipoint	LOS, Optical LOS, non LOS; Cellular-based point-to-multipoint	
RF Band1:	3.3-3.5*; 3.4-3.6; and 3.6-3.8 GHz	5.15 to 5.85 GHz; 2.412 to 2.472 GHz; 3.4 to 3.6 GHz	
Channel Size:	3.5 MHz, 7 MHz	3.5MHz, 7MHz	
RF Dynamic Range:	> 40 dB	3.5GHz: +21dB; 5.0GHz: +18dB; 2.4 GHz: +20dB	
Spectral Efficiency:	Up to 5 bps/Hz (over the air)	BPSK 6 and 9 Mbps 6 and 9 Mbps 1.4 Mbps 2.8 Mbps QPSK 12 and 18 Mbps 12 and 18 Mbps 2.8 and 4.2 Mbps 6.6 and 8.5 Mbps 16-QAM 24 and 36 Mbps 24 and 36 Mbps 5.6 and 8.5 Mbps 11.3 and 16.9 Mbps 64-QAM 48 and 54 Mbps 48 and 54 Mbps 11.3 and 12.7 Mbps 22.6 and 25.4 Mbps	
Over The Air Rate:	Up to 35 Mbps (7 MHz channel, rates depend on channel size)		
Ethernet Data Rate:	Up to 23 Mbps (7 MHz channel)		
Latency:	6-18 msec (depends on channel size, OFDM frame duration)		
Maximum Tx Power:	+23 dBm across all modulation/coding levels (region specific)		
Rx Sensitivity:	Better than -98 dBm @ BPSK 1/2 (based on BER of 1x10e-6)		
IF Cable:	Maximum length up to 984 ft (300 m) using Redline recommended high-grade IF cable		
Network Attributes:	Transparent bridge; 802.1Q, TOS/DSCP and L2/L3 address, traffic classification; DHCP client, client pass-through		
Rates:	Auto-select modulation: BPSK, QPSK, 16 QAM, 64 QAM		
Auto-select coding:	1/2, 2/3, 3/4	1/2, 2/3, 3/4	
Over the Air Encryption:	DES, 3DES	802.11i support for CCMP/AES KEYS OF 128 BITS (WPA2) TKIP Encryption. Support for WEP keys of 64 and 128 bits Rich security features to safeguard privacy Advanced AES encryption, WOPR prevents common Wi-Fi snooping, BSU-SU mutual authentication prevents rogue SU	
Synchronization:	Input for external 1 PPS GPS clock signal	Input for external 1 PPS GPS clock signal	
MAC:	802.16-2004 compliant PMP; 802.16-2004 packet convergence sub-layer mode TDMA Access	Rich security features to safeguard privacy; Advanced AES encryption; WOPR prevents common Wi-Fi snooping; BSU-SU mutual authentication prevents rogue SU	
Range:	Over 28 mi (40 km) LOS; 12mi (20 km) PMP; Over 2 mi (3 km) non LOS	MP.11 offers best-in-class range (20 miles) and throughput (exceeding 30 Mbps)	
Duplex Technique:	TDD (time division duplex); HD-FDD (half duplex frequency division duplex);	Duplexing Mode – TDD; NLOS and Interference Mitigation Features – OFDM 256FT, Adaptive Modulation, FEC; Frame Duration – 5, 10 and 20ms DSSS	
Wireless Transmission (PHY):	256 FFT Orthogonal Frequency Division Multiplexing (OFDM); (Orthogonal Frequency Division Multiplexing)		
Network Connections:	Standard: 10/100 Ethernet (RJ-45)		
System Configuration:	HTTP (Web) interface, SNMP; CLI via Telnet and Local Console		
Network Management:	SNMP, standard and proprietary MIBs; Full management by RedMAX Management Suite (RMS)	Local Monitoring:• Serial CLI • Logging to serial port, flash, RAM or Syslog server<->Remote Monitoring • Telnet CLI • HTTP • TFTP• SNMPv1, SNMPv2 • MIB-II, Proxim MIBs, Bridge MIB, 802.16MIB, Etherlike MIB Remote Management Access<->• Multi Level Password (user, administrator, installer, factory, engineering)	
Power Requirements:	Auto-sensing 110/220/240 VAC 50/60 Hz; Auto-sensing 18-72 VDC, 80 W	POE Power Injector • Custom Power over Ethernet (802.3af compatible) • Input: Voltage 110 to 250 VAC (47-63Hz) • Output: 48V @ 420mA MAX (injected into the Cat-5 Cable) • Pin for reset to factory default of mesh AP <-> AC Power Support • 110/240 VAC light pole power tap (purchased separately)	
Redundant Power:	Optional dual AC or dual DC power supply (dual cord) with automatic fail-over	Solar and Wind power so the system will stay active even if the power grid goes down.	
Compliance:	EMC: EN 301 489-1, EN 301 489-4, EN 55022/CISPR 22	Safety • UL 60950, UL50 • CSA 22.2 No. 60950-00 • IEC 60950 3rd Ed (1999) <-> Radio Approvals • USA FCC	



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RF:	EN 302 326, Industry Canada: RSS-192, FCC: Parts 90 & 15; For RF Band 3.6-3.8 GHz only	15.107, 15-109; 15-203-15.205, 15.207, 15.209; 15.247; 15.401-15.407 • Canada RSS-102; RSS-210; ICES-003 • Europe (ETSI) EN 301.893; EN 300.328; EN 301.489-1; EN 301.489-17; EN 300-440; EN50371 • ARIB STD-T71,	
Safety:	IEC 60950-1, UL 60950-1	STD 33, STD 66 <-> EMI and Susceptibility (Class B) • USA FCC Part 15.107 • Canada ICES-003 <-> Water and Dust	
Operating Temperature:	IDU: 0 C to 40 C; ODU: -40 C to 60 C; Dimensions 17 x 12 x 1.75 in (431.8 x 304.8 x 44.45 mm)	• -33° to 60°C	
Weight:	5.5 lb (2.5 kg)	12 lbs (5.44 kg) and 5.5 lbs (2.49 kg)	
Humidity:	Up to 90% non-condensing	• 100% relative humidity (non-condensing) • Wind loading: 125mph	
WiMAX Forum Certified™	1WiMAX Forum certification only applicable to 3.4 - 3.6 GHz	1WiMAX Forum certification	
	Results: Yellow >RedMAX; Green>MeshMAX; Same>Blue	MTBF = 100,000 Hours	