



## MiMOMax Wireless e-Newsletter

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### MiMOMax "Power On Demand" Link M-PoD

MiMOMax Wireless has developed, and is soon to be releasing, a "Power on Demand Link", which is able to automatically activate when data needs to be transmitted, and deactivate once data has finished transmitting.

The core benefit of this feature is the substantial savings in power consumption, as the link stays in idle when it is not in use, only consuming 10watts of power.

### MiMOMax Wireless Antenna Data Sheets

MiMOMax has recently released Data Sheet for all MiMO Antennas, providing comprehensive technical information and images. Specific Antenna Data Sheets can be viewed by clicking on the corresponding link.

- **Compact Loop Yagi**
- **Panel Antenna**
- **Omni Directional Antenna**



### M-DAP - MiMOMax Data Acceleration Protocols

MiMOMax Wireless Ltd has released an optional suite of Data Acceleration Protocols (M-DAP). M-DAP is a suite of up to four individual protocols which accelerate the transfer of data across the Ethernet interfaces on all MiMOMax linking products. It does this through;

#### - Header Compression of:

Ethernet

IP (Internet Protocol)

UDP (User datagram Protocol)

RTP (Real Time Protocol)

The compression technology reduces the header overhead and delivers greater capacity for other traffic or additional voice streamsvoice. This is particularly useful when protocol headers of VoIP streams occupy more bytes than the voice payload. For example, the headers on a VoIP packet might ordinarily occupy up to 60 bytes, but, M-DAP can compress this down to an ultra efficient 3 bytes.

#### - Providing Quality of Service:

The Differentiated Services (DiffServ) model of Quality of Service is utilized to ensure a high quality of service. DiffServ splits all IP traffic into different classes of service. This ensures that priority communications have precedence over lower priority communication. A special Express Forward class used for VoIP uses a proprietary fragmentation technique to ensure ultra low latency and low jitter for VoIP regardless of other traffic on the link. This fragments low priority data traffic to enable low jitter and ultra low latency for high priority traffic.

#### - Payload compression (future)

Payload compression will very effectively compress text based data (e.g. web pages, log files, xml etc.). This will result in faster downloads and additional capacity for other traffic.

### M-RAP - MiMOMax Routing Adaptation Protocols

M-RAP is an optional suite of protocols that provide dynamic routing. This allows communications to continue in the event of a failure if alternate communications links exist.

- **OSPF** (Open Shortest Path First) is used at a WAN level to determine the shortest path to between two sites. Should a communications link fail, OSPF selects an alternate path, ensuring that communication continues.

- **VRRP** (Virtual Router Redundancy Protocol) is used at a LAN level to ensure that devices on that LAN have redundant local gateways. In the event of a failure, the remaining MiMOMax routers elect a new default gateway to ensure that devices on the local network can continue communicating with the WAN

- **GRE** (Generic Route Encapsulation) is used to transfer OSPF monitoring statistics to a central monitoring server.

For more information on MiMOMax's technical product developments, such as M-DAP & M-RAP, visit: <http://www.mimomax.com/mimomax-news-product-updates-2/>

## 4 Wire Audio Network Interface Box (NIB)

MiMOMax Wireless has released a new audio interface solution, applicable to all of its product family. The 4 Wire Audio Network Interface Box (4WA NIB), provides up to 6 channels of 4- wire VF with E&M signaling, on a 25kHz channel. Additionally, the 4WA NIB can support site monitoring or inter-site communications via an RS232 Async Serial connection, with a maximum raw data rate of 19.2kb/s.

12.5kHz channels are also supported by the 4WA NIB, which provides either up to three x 4 wire audio channels and no inter-site connection, or two x 4 wire audio channels with inter-site connection, both options including E & M signalling. (Note: dependent on Modulation level chosen)

The 4WA NIB utilises a G726 32kbps ADPCM vo-coder, which provides low latency, toll quality, tone transparent audio paths. As a result, this combined MiMOMax 4WA NIB system provides a cost effective, ultra spectrally efficient and low latency audio interface solution.



## Certified Compliances

MiMOMax Wireless' has recently extended its product family's list of certified compliances. Compliances were certified by bodies such as the Federation of Communications Commission (FCC), Industry Canada (IC) and CE, to name a few.

Needless to say, the MiMOMax Wireless team is pleased with these certification acquirements, as they are expected to enhance product integrity, due to independent product testing, and additionally, open a wider range of international markets in the near future. Below is a list of MiMOMax Wireless' certified compliances:

### Radio performance:

- EN 302 217
- RSS-Gen, RSS-119
- FCC 47CFR part 90  
Compliance Number: FCC: XMK-MMXRUDHB002
- IC  
Compliance Number: 8587A-RUBFDHB2
- \*ACMA (Australia) based on SIA  
Compliance Number: AS/NZS 4295-2004 & AS/NZS 4768
- CE  
Point to Point: EN302 217-2-2 V1.2.3 (2007-09)  
Point to Multipoint: EN302 326-2 V1.2.2 (2007-06)  
Spurious domain emissions (conducted at antenna port: EN 300-113-2 V1.4.1 (2007-07).

### EMC:

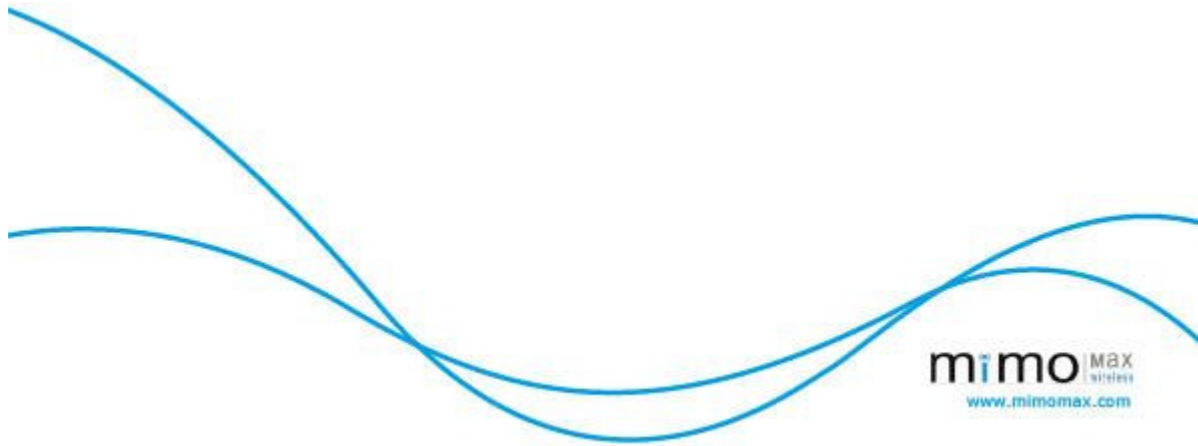
- AS/NZS/CISPR22
- EN 301 489-1 V1.8.1 (2008-04)
- EN301 489-4 V1.3.1 (2002-08)
- FCC 47CFR part 15
- ICES-003

### Environmental:

- EN 300 019 sections 3.3 & 4.2H

### Safety:

- EN 60950(2006)



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