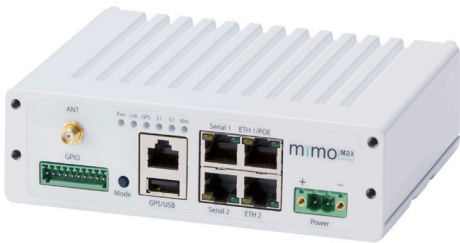




## MiMOMax PYXIS



THE LATEST RADIO IN THE **MiMOMax** PRODUCT RANGE THE **PYXIS** CAN BE A STAND ALONE SOLUTION OR INTERGRATED WITH THE **MiMOMax** **TORNADO** IN A MULTI-TIER SOLUTION. THE **MiMOMax** **PYXIS** IS SOFTWARE PROGRAMMABLE OVER A WIDE RAGE OF CHANNEL BANDWIDTHS **12.5kHz** TO **50kHz**.

THE **MiMOMax** SOLUTION IS AN ECONOMICAL SOLUTION TO YOUR **SCADA** NEEDS UTILISING **PTP/PTMP** TREE STRUCTURE TO CONNECT DEVICES AT THE PERIPHERY OF YOUR NETWORK.

### **BENEFITS** **KEY FEATURES**

- |                              |  |
|------------------------------|--|
| <b>SERIOUSLY SMART</b>       | <ul style="list-style-type: none"> <li>▶ Point-to-Point, Point-to-Multipoint</li> <li>▶ Encryption Options</li> </ul>                              |
| <b>SCALABLE</b>              | <ul style="list-style-type: none"> <li>▶ M-DAP data acceleration options</li> <li>▶ SISO</li> </ul>  |
| <b>VERY ECONOMICAL</b>       | <ul style="list-style-type: none"> <li>▶ Time Division Duplex</li> </ul>   |
| <b>HIGHLY EFFICIENT</b>      | <ul style="list-style-type: none"> <li>▶ Software programmable over a wide range of channel bandwidths</li> <li>▶ Supports 2 and 4 GFSK</li> </ul> |
| <b>COMPATIBLE</b>            | <ul style="list-style-type: none"> <li>▶ 757-788MHz Licensed Spectrum</li> </ul>   |
| <b>ROBUST</b>                | <ul style="list-style-type: none"> <li>▶ Ethernet &amp; Serial Interfaces</li> <li>▶ Advanced Software Features</li> </ul>                         |
| <b>EXCLUSIVE TO USER</b>     | <ul style="list-style-type: none"> <li>▶ User Settable Frequency</li> <li>▶ User Programmable Power</li> </ul>                                     |
| <b>ENVIRONMENTALLY SOUND</b> |  |

## PYXIS *PRODUCT SPECIFICATIONS*

### RF Specifications

|                             |   |
|-----------------------------|---|
| Frequency Range             | 757-758/ 787-788-MHz  |
| Modulation                  | 2 GFSK, 4 GFSK  |
| Channel Size                | 12.5kHz<br>25 kHz<br>50 kHz   |
| Power Consumption (Typical) | <20W Max<br>Typical at 13.5VDC input, 3W RF output with Serial and Ethernet active <15W |
| Frequency Stability         | 1.0 ppm   |
| RF Impedance                | 50 Ohms   |
| Transmitter Output Power    | 1 mW to 1 W   |

| Receiver Sensitivity (dBm) @ Data rate | 2GFSK            | 12.5kHz           | 25kHz            | 50kHz             |
|--|------------------|-------------------|------------------|-------------------|
|  |                  | -121<br>4.8 kbps  | -118<br>9.6 kbps | -115<br>19.2 kbps |
| 4GFSK                                  | -115<br>9.6 kbps | -113<br>19.2 kbps | -110<br>38.4kbps |                   |

### Interfaces and Security

|                 |   |
|-----------------|---|
| Serial Data     | 2x RS232/ 422 /485 (2x RJ45 connectors) |
| Ethernet        | 2x 10/100 base T (2x RJ45 connectors)   |
| Data Encryption | AES 256                                 |

### Physical

|                             |                                       |
|-----------------------------|---------------------------------------|
| Operating Voltage           | 10.5-60 VDC (Isolated)                |
| Transmit Current            | <1.1 @ 13.8V @ 1W RF                  |
| RF Connector                | SMA                                   |
| Dimensions (L x W x H)      | 127mm x 150mm x 44mm (5"x 6" x 1.75") |
| Weight                      | 770 grams, 27 oz                      |
| Operating Temperature Range | -40C to 60C, -40F to 140F             |
| Transmit Duty Cycle         | Dynamic TDD Operation                 |

### Compliances

|                   |                                     |
|-------------------|-------------------------------------|
| Radio Performance | FCC 47CFR part 27                   |
| EMC               | FCC 47CFR part 15 (subpart A and B) |
| Safety            | IEC 60950-1: 2005, Am 1 : 2009      |