

MIMOMAX PYXIS

700MHz Radio Spec Sheet



The latest radio in the Mimomax product range, 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 channel bandwidths of 25kHz and 50kHz.

The Mimomax solution is an economical solution to your SCADA needs utilising PTP/PTMP structure to connect devices at the periphery of your network.

KEY FEATURES

- ▶ *Point-to-Point, Point-to-Multipoint*
- ▶ *Encryption Options*
- ▶ *M-DAP data acceleration options*
- ▶ *SISO*
- ▶ *Time Division Duplex*
- ▶ *Software programmable channel bandwidths of 25kHz and 50kHz*
- ▶ *Supports 4 GFSK modulation*
- ▶ *757-788MHz Licensed Spectrum*
- ▶ *Ethernet & Serial Interfaces*
- ▶ *Advanced Software Features*
- ▶ *User Settable Frequency*
- ▶ *User Programmable Power*

700MHz MIMOMAX PYXIS SPECIFICATIONS

RF Specifications

Frequency Range	757-758MHz, 787-788MHz
Modulation	4 GFSK
Channel Size	25kHz, 50kHz
Power Consumption (Typical)	< 10W Max Typical at 13.5VDC input, 1W RF output with Serial and Ethernet active < 8W
Frequency Stability	1.0 ppm
RF Impedance	50 Ohms
Transmitter Output Power	1mW to 1W

Receiver Sensitivity (dBm) @ Data rate¹

	25 kHz	50 kHz
4 GFSK	-109.5dBm 19.2 kb/s	-106.5dBm 38.4 kb/s

Interfaces and Security

Serial Data	2 x RS232 / 422 / 485 (2 x RJ45 connectors)
Ethernet	2 x 10/100 base T (2 x RJ45 connectors) PoE IEEE 802.3 AF or AT
Data Encryption	AES 256

Physical

Operating Voltage	10.5 - 60VDC (Isolated)
Transmit Current	< 1.1A @ 13.8V @ 1W RF
RF Connector	SMA
Dimensions (L x W x H)	5 x 6 x 1.75 inches (127 x 150 x 44 mm)
Weight	1.70lbs (770g)
Operating Temperature Range	-40F to 149F (-40C to 65C)
Transmit Duty Cycle	Dynamic TDD Operation (up to 100%)

Compliances

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

Important: Specifications are subject to change without prior notice

Note:

1. the sensitivity is tested with 5% PER, please allow +/-1dB tolerance