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MIMOMAX PYXIS

700MHz Radio Spec Sheet

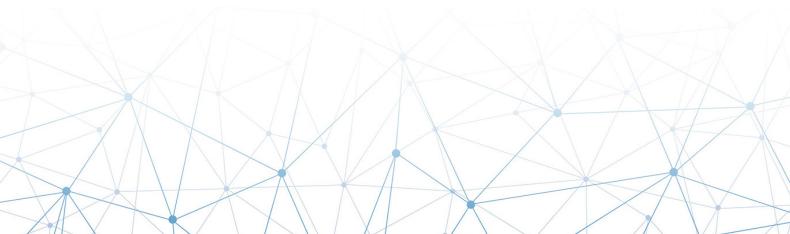


The latest radio in the Mimomax product range, Pyxis can be a stand alone solution or intergrated with the Mimomax Tornado in a multi-tier solution. The Mimomax Pyxis is software programmable over a channel bandwidths of 25kHz and 50kHz.

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 rate ¹				
	25 kHz	50 kHz		
4 GFSK	-109.5dBm	-106.5dBm		
	19.2 kb/s	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