**XETAWAVE**
CUSTOM RF SOLUTIONS

The **Xeta-EIO (Ethernet/ModbusTCP)** and **Xeta-SIO (Serial/Modbus)** are integrated IO solutions which combine configurable multi-function IO channels with up to two high performance XetaWave radios all within a single enclosure.

The Xeta-EIO/SIO both offer four (4) multi-function analog IO channels which are each calibrated and configurable as 1-5V voltage inputs, 4-20mA current sensing inputs, 20mA current source outputs, or as switched power for sensors. An additional four (4) digital IO channels each offer de-bounced input logic sensing and software counting with switchable pull-ups, or switch-to-GND control of external loads up to 2A DC. One (1) digital IO has a hardware counter path usable to 10kHz and all digital IO's can also be used as auxiliary 1-5V analog inputs.

The Xeta-EIO/SIO supports all of the frequencies available from XetaWave now and in the future. Current availability includes the Xeta9 dual band modules for 902 to 960 MHz, Xeta4 narrow band radios for 406-512 MHz, and Xeta24 for the 2.4 GHz ISM band. Future availability will expand to include IO for the Xeta1 (150-232 MHz), Xeta2 (216-232 MHz), and Xeta3 (225-380 MHz).

The Xeta9-EIO is in a rugged DIN-mountable Class 1 Div 2 (pending) metal enclosure. The Xeta-SIO is available in a plastic enclosure.

The Xeta-EIO/SIO are compatible with many sensors, support Modbus, and seamlessly integrate with XetaWave networks. The Xeta-EIO/SIO is ideally suited across multiple industries for the secure, wireless monitoring and control of temperatures, pressures, levels, meters, pumps, valves and for process control applications.

## Key Differentiators

**Multiple Frequencies**
The Xeta-EIO & SIO are available for multiple frequencies. Current support includes Xeta9 900MHz, Xeta4 Narrow Band 400MHz, and Xeta24 2.4GHz.

**Serial & Ethernet**
XetaWave offers two versions - the Xeta-EIO for Ethernet; Xeta-SIO for serial.

**High Speed**
Up to 4.4 Mbps

**Web-based Configuration & Diagnostics**  The Xeta-EIO can be configured & diagnostics accessed through a web-based application providing ease of access.

**Current Sensing on DO**
Allows detection of an "open" fault on a remote circuit.

## Channel Capabilities

| Type | Capability | Ch0 | Ch1 | Ch2 | Ch3 | Ch4 | Ch5 | Ch6 | Ch7 |
|---|---|---|---|---|---|---|---|---|---|
| DI | Adjustable threshold | x | x | x | x | x | x | x | x |
| DI | Pull-up | x | x | x | x | x | x | x | x |
| DI | Pull-down resistor | x | x | x | x | x | x | x | x |
| DI | 200 Hertz counting | | | | | x | x | x | x |
| DI | 10 kiloHertz counting | | | | | x | | | |
| DO | 2 Amp V+ switch to ground Current sensing | | | | | x | x | x | x |
| AI | -0.3 to 6.25 Volt +/- 0.5% | x | x | x | x | | | | |
| AI | -0.3 to 7.5 Volt +/- 2.5% | | | | | x | x | x | x |
| AI | 0 to 25 milliAmp +/- 0.5% | x | x | x | x | | | | |
| AO | 0 to 24 milliAmp +/- 0.5% | x | x | x | x | | | | |