The **XetaIO Debian** is a Class 1 Div 2 certified industrial **I/O Expander** that is simple, reliable, and cost effective. The **XetaIO** offers 8 programmable input and output signals for monitoring and/or controlling external sensors and devices.

The **XetaIO** can be used with XetaWave products or any other serial or Ethernet wired or wireless product. Two Ethernet and two serial ports allow simple inline connection or the ability to translate between Ethernet and serial.

TCP Terminal Sever, TCP Terminal Client, and UDP Terminal modes are supported along with Modbus Bridging and our no cost add-on **Data Concentrator** and **Wire Replacement** software modules.

Key Features

Industrial Safe C1D2 certified and operational from −40⁰C to +85ᵒC for hazardous industrial applications.

Interface Rich Includes 2 Ethernet ports, 2 serial ports, and 1 USB 2.0 port.

Terminal Services Connect to serial devices over Ethernet.

Modbus Bridge Translate between Modbus RTU and Modbus TCP.

Programmable I/O Independently configure 4 I/O as analog inputs, analog outputs, or digital inputs and 4 I/O as digital inputs or outputs.

Data Concentrator Converge data from many Modbus services into a unified Modbus map or publish using MQTT.

Wire Replacement Replicate input and output signals across an Ethernet, serial or external wireless links.

XetaIO Debian Specifications

Processing

CPU	300 MHz ARM Cortex-A8
OS	Debian
RAM / Flash	256 MB / 4 GB

Interfaces

Ethernet	2 x RJ45 / 10/100 Mbps Base-T
Serial	2 x RJ45 / up to 1Mbps / RS232/422/485
Micro USB	On-the-Go; +5 Vdc @ 500 mA

Power

Connector	2-pin Phoenix
Voltage	+10 to +32 Vdc
Consumption	150 mA @ +12 Vdc

Environmental/Physical

Op. Temperature	-40ºC to +85ºC
Humidity	95% @ +40ºC non-condensing
Safety	UL Class 1 Div 2
Dimensions (LxWxH)	5.5" x 3.5" x 1.5"
Weight	182 grams

Functionality

Networking	Static IP Routing, Net Filtering, Port Forwarding, Network Address Translation
Protocols	IEEE 802.3, TCP, UDP, ARP, DHCP, NTP, FTP, ICMP, HTTP, HTTPS, SSH, Telnet, Multicast SNMP
Management	Web GUI, SNMP v1, v2, & v3
VLANs	802.1q VLANs and Trunks
Serial Services	TCP/UDP Server, TCP Client, Modbus Bridging
Diagnostics	IP Ping, Traceroute, IPERF, TCP Dump, DNS Lookup, Serial Statistics, Modbus Bridge Statistics
Data Concentrator	No cost add-on to converge data from Modbus services into a unified Modbus map or publish with MQTT
Wire Replacement	No cost add-on to replicate input and output signals across an Ethernet, serial or external wireless link
Programmable I/O	8 programmable input/output signals (4 independently programmed analog inputs, analog outputs, or digital inputs and 4 independently programed digital inputs or digital outputs)

Ordering

XETA-22NPDNA-IO	Plastic Enclosed, 2 Ethernet & 2 Serial with 8 Programmable I/O

XETAWAVE
CUSTOM RF SOLUTIONS

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