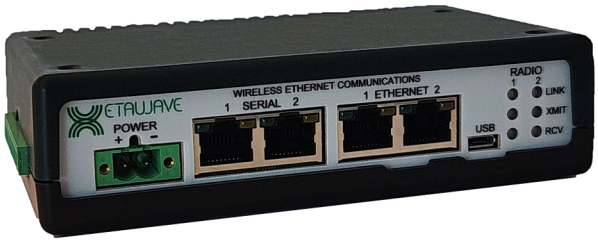
XetaIO

Debian I/O Expander

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

The **Debian 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 available supporting up to 5 simultaneous connections. The **Debian XetaIO** also supports Modbus Bridging and the add-on **Data Concentrator** and **Wire Replacement** software modules at no additional costs.

Key Features

Industrial Safe C1D2 certified and operational from –40°C to +85°C.

Terminal Services Up to 5 Ethernet TCP server connections to serial devices.

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.

Resistors Built-in pull-up and pull-down resistors eliminates the need for external resistors.

Digital Input Multiple digital inputs for monitoring relays, switches, closure sensors, and alarms.

Digital Output Multiple digital outputs for controlling solenoids, latches, valves, pumps, lamps, or relays.

Analog Input Multiple 4-20 mA and 1 -5 Vdc analog inputs for connecting sensors measuring temperature, humidity, flow, level, or pressure.

Analog Output Multiple 4-20 mA and 1-5 Vdc analog outputs for connecting to PLCs, RTUs, and flow computers and for wire replacement solutions.

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XetaIO Debian Specifications

Processing

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

Power

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

Interfaces

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

Environmental/Physical

Op. Temp.	-40°C to +85°C
Humidity	95% @ +40°C non-condensing
Safety	UL Class 1 Div 2
Dimensions	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, Network Statistics, Serial Statistics, Modbus Bridge Statistics, Statistics Graphing and CSV downloading
Programmable I/O	8 programmable input/output signals (4 independently programmed analog inputs/ outputs or digital inputs and 4 independently programmed digital inputs/outputs)
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

Ordering

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

XETAWAVE
CUSTOM RF SOLUTIONS

Specifications subject to change without notice. 2.2025

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