

XetaWave Product Portfolio

XetaWave develops reliable, long-range, high-speed industrial wireless data transfer and automation technology to meet the needs of oil and gas, water and wastewater, utilities, defense, and other industries.



The XetaWave product portfolio includes Ethernet and serial software defined radios (SDR), edge computers, cell modems, terminal servers, I/O expanders, MDS compatibility and FreeWave migration solutions. XetaWave products are offered across a global frequency range from 135 MHz to 2.4 GHz and are offered in multiple form factors.

All XetaWave products are 100% designed, manufactured, tested, and supported in the U.S. and maintain backward compatibility from the first unit released in 2010 to the latest shipping today.

Software Defined Radios

Family	Type	Frequency	RF Rates	TX Pwr	Range	Package	I/O
Xeta1	Ethernet Serial Only	135 - 174 MHz	5 - 88 kbps	to 5W	70+ miles	Metal Enclosed	Optional
Xeta2	Ethernet Serial Only	217 - 222 MHz	10 - 960 kbps	to 5W	70+ miles	Metal Enclosed	Optional
Xeta4	Ethernet Serial Only	406 - 430 450 - 470 MHz 450 - 470 MHz	5 - 216 kbps	to 10W	70+ miles	Metal Enclosed	Optional
Xeta7	Ethernet	757 - 758 787 - 788 MHz	10 - 1008 kbps	to 10W	70+ miles	Metal Enclosed	Optional
Xeta8	Ethernet	896 - 901 935 - 940 MHz	10 - 210 kbps	to 5W	70+ miles	Metal Enclosed	Optional
Xeta9	Ethernet Serial Only	902 - 928 MHz 902 - 928 928 - 960 MHz	57 - 5303 kbps 10 - 210 kbps	to 1W to 3W	70+ miles	Metal Enclosed Plastic Enclosed	Optional
Xeta9x	Ethernet Serial Only	902 - 928 MHz	57 - 5303 kbps	to 1W	25 miles	Plastic Enclosed Board Level	None
Xeta9s	Serial Only	902 - 928 MHz	57 - 5303 kbps	to 1W	25 miles	Board Level	Standard
Xeta13	Serial Only	1.35—1.39 GHz	57 - 5303 kbps	to 5W	45 miles	Metal Enclosed	None
Xeta14	Ethernet	1.427 - 1.432 GHz	10 - 210 kbps	to 610 mW	20 miles	Metal Enclosed	Optional
Xeta24	Ethernet	2.402 - 2.478 GHz	57 - 5303 kbps	to 1W	10 miles	Metal Enclosed Plastic Enclosed	Optional

Edge Computers

Family	Type	Frequency	RF Rates	TX Pwr	Range	Package	I/O
XetaEC	Ethernet	None	None	None	None	Plastic Enclosed Board Level	Optional
XetaEC2	Ethernet	217 - 222 MHz	10 - 960 kbps	to 5W	70+ miles	Metal Enclosed	Optional
XetaEC4	Ethernet	406 - 430 / 450 - 470 MHz 450 - 470 MHz	5 - 216 kbps	to 10W	70+ miles	Metal Enclosed	Optional
XetaEC9	Ethernet	902 - 928 MHz 902 - 928 / 928 - 960 MHz	57 - 5303 kbps 10 - 210 kbps	to 1W to 3W	70+ miles	Metal Enclosed Plastic Enclosed	Optional
XetaEC24	Ethernet	2.402 - 2.478 GHz	57 - 5303 kbps	to 1W	10 miles	Metal Enclosed Plastic Enclosed	Optional

XetaWave Portfolio Overview

Cell Modems

Family	Type	Data Rates	Carriers	Package	I/O
XetaC4	Standard	150 Mbps Down 50 Mbps Up	AT&T, Verizon, T-Mobile, FirstNet, Rogers, Telus	Plastic Enclosed	Optional
XetaECC4	Edge Computer	150 Mbps Down 50 Mbps Up	AT&T, Verizon, T-Mobile, FirstNet, Rogers, Telus	Metal Enclosed	Optional

Other Devices

Dual Radios	All Ethernet radio families are available in a dual channel configuration in which the standard metal enclosure hosts two radios in the same frequency band or different frequency bands with two antenna connections.
I/O Expander	Ethernet and serial I/O expanders are available offering 8 programmable input/output signals - 4 independently programmed analog inputs, analog outputs, or digital inputs and 4 independently programmed digital inputs or digital outputs.
Terminal Server	A low cost industrial grade terminal server that supports all of the features of a XetaWave Ethernet radio without the radio (RF) element. Supports VLANs, static routes, net filters, port forwarding, NAT, TCP/UDP terminal services, Modbus bridging, and many more features.
INS	The Intelligent Network Synchronizer (INS) allows the co-location of XetaWave networks with legacy FreeWave or Microhard networks. The INS co-locates with the legacy access point or master radio and shares a common antenna. The INS works with FreeWave DGR, FGR, FGR2, FGR3, and HT Plus radios and Microhard IPn920BD-ENC and IP920BD radios.
Communications Station	19" 3U redundant radio system providing rapid hot swap switchover. Utilizes two standard Ethernet radios and is available with redundant AC or DC power supplies.

Radio Options

Programmable I/O	8 programmable input/output signals: 4 independently programmed analog inputs, analog outputs, or digital inputs and 4 independently programmed digital inputs or digital outputs. Analog input: 0-6.2 Vdc, 0-25 mA, 0.4 Hz event counter, 16-bit resolution, 0.5% max error Analog output: 1-24 mA, 0.5% max error output Digital input: 0-6.2 Vdc, 10 Hz event counter, 12-bit resolution, 2.5% max error Digital output: open, closed to ground. up to 2A
Data Concentrator	No cost add-on firmware to converge data from one or more Modbus devices into a unified Modbus map and/or publish to a broker using MQTT.
Wire Replacement	No cost add-on firmware to replicate input and output signals across an Ethernet, serial, or external wireless link.

GE MDS Compatibility

x710	Over-the-air GE MDS x710 Modes A and B compatibility as an end point (slave/remote)
TransNET	Over-the-air GE MDS TransNET and TransNEXT compatibility as an end point (slave/remote)
SDx	Over-the-air GE MDS SD Series compatibility as an end point (slave/remote)

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Product Features (model dependent)

All Radios

Point to Point	FHSS Peer-to-Peer	Repeater	Secure Hop Pattern
Point to MultiPoint	Seamless Serial	CRC, Retransmit on error	Compression
Enhanced MultiPoint	TDMA	Golay, Reed-Solomon FEC	MultiMaster Sync
MutiSpeed MultiPoint	Access Point (master)	AES Data Encryption	Class 1 Div 2
CSMA Peer-to-Peer	End Point (slave/remote)	AES RF Encryption	

All Ethernet/IP Devices

Static IP Routing	Network Address Translation	TCP Terminal Client	1 or 2 Ethernet Ports
Net Filtering	SNMP v1, v2, & v3	Data Concentrator	1 or 2 Serial Ports
Port Forwarding	802.1q VLANs and Trunks	Wire Replacement	
OpenVPN Client	VLAN QoS	Industrial Temperature range	
Modbus Bridging	TCP/UDP Terminal Server	Class 1 Div 2	

Datasheets with full product specifications are available on the XetaWave web site



Specifications subject to change without notice.

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