

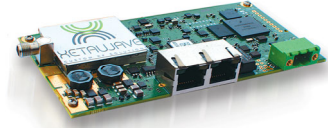


XetaWave Product Portfolio

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

The XetaWave portfolio includes edge computers, terminal servers, I/O expanders, and Ethernet, serial, and edge computing wireless devices covering the frequency bands from 150 MHz to 2.4 GHz.

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



Software Defined Radios

Family	Type	Frequency	RF Rates	TX Pwr	Range	Package	I/O
Xeta1	Ethernet Serial Only	150 - 174 MHz	5 - 88 kbps	to 5W	70+ miles	Metal Enclosed	Optional
Xeta2	Ethernet Serial Only	217 - 220 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	70 miles	Plastic Enclosed Board Level	None
Xeta9s	Serial Only	902 - 928 MHz	57 - 5303 kbps	to 1W	70 miles	Board Level	Standard
Xeta14	Ethernet	1.427 - 1.432 GHz	10 - 210 kbps	to 610 mW	70+ miles	Metal Enclosed	Optional
Xeta24	Ethernet	2.402 - 2.478 GHz	57 - 5303 kbps	to 1W	40 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
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	40 miles	Metal Enclosed Plastic Enclosed	Optional

XetaWave Portfolio Overview, cont.

Other Devices

Dual Radios	All 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	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 XetaWave Ethernet radios 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—Interoperability with legacy FreeWave & Microhard networks	An Intelligent Network Synchronizer (INS) that allows the co-location of XetaWave networks with legacy FreeWave and Microhard networks. The INS co-locates with the legacy access point or master radio and shares the same 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. Available with redundant single or dual channel radios and 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 measurement 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% error measurement Digital output: open, closed to ground up to 2A
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GE MDS Compatibility

X710 Series	Over-the-air GE MDS x710 Modes A and B compatibility as an end point (slave)
SD Series	Over-the-air GE MDS SD1, SD2, SD4, and SD9 radios operating in X710 mode
TransNET	Over-the-air GE MDS TransNET compatibility as an end point (slave)

Product Features (model dependent)

Point to Point	Access Point (master)	SNMP v1, v2, & v3	AES RF Encryption
Point to MultiPoint	End Point (slave)	802.1q VLANs and Trunks	Secure Hop Pattern
Enhanced MultiPoint	Repeaters	VLAN QoS	Compression
MutiSpeed MultiPoint	Static IP Routing	TCP/UDP Terminal Server	MultiMaster Sync
CSMA Peer-to-Peer	Net Filtering	TCP Terminal Client	1 or 2 Ethernet Ports
FHSS Peer-to-Peer	Port Forwarding	CRC, Retransmit on error	1 or 2 Serial Ports
Seamless Serial	Network Address Translation	Golay, Reed-Solomon FEC	Industrial Temperature range
TDMA	Modbus Bridging	AES Data Encryption	Class 1 Div 2

Datasheets with full product specifications are available on the XetaWave web site @ www.xetawave.com



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