

Dual Radio High Availability Communications Station

The XetaWave Communications Station (**XetaCS**) is a dual radio, high availability communication station and the Redundant Communications Station (**XetaRCS**) is a redundant dual radio, high availability communication station. Built upon and incorporating the advanced technology of XetaWave's radios, the **XetaCS** and **XetaRCS** continuously monitors both local and remote communication channels and enables a rapid hot standby switch over in the event of a system communication interruption.



The **XetaCS** and **XetaRCS** offer expanded functionality beyond a simple master station. These communication stations enable hot standby reliability in all nodes of a radio network supporting normal Access Point operation plus Endpoint and repeating Endpoint operation. The **XetaCS** and **XetaRCS** are compatible with all XetaWave products, both MAS licensed and ISM unlicensed, including the 100 MHz Xeta1, 200 MHz Xeta2, 400 MHz Xeta4, 700 MHz Xeta7, 900 MHz Xeta9, and 2.4 GHz Xeta24.

Key Features

Flexible Available in the 100 MHz, 200 MHz, 400 MHz, 700 MHz, 900 MHz, and 2.4 GHz frequency bands.

Functions Supports the full features of the radio installed— networking, RF modes, serial services, diagnostics, management, and security.

Hot Swap Redundant power supplies and radios for continuous operation.

Configurable Automatic, local manual and remote manual hot failover.

Management Web and network management reporting of failure condition, control, and status.

Network Types Point to Point, Point to MultiPoint, CSMA peer to peer, Enhanced MultiPoint (**XetaEMP**), and **XetaMESH**.

XetaCS Specifications

Interfaces (Front Panel)

Display	244 x 68 graphic / backlit
Ethernet	2 x RJ45 / 10/100 Mbps Base-T
Serial	2 x RJ45 / up to 230.4 kbps / RS232/422/485
Discrete	1 Alarm Output 1 PPS Input

Interfaces (Front Panel)

RF	N / 50 Ohms
Power	2-pin Phoenix or 3-pin 120 Vac
Ground	1/4 x 20 Stud

Power Options

AC	100 to 240 Vac
DC	9 to 36 Vdc 19 to 72 Vdc

Environmental/Physical

Op. Temperature	-40°C to +65°C
Humidity	95% @ +40°C non-condensing
Width	19 "
Height	5.22" (standard 3U)
Length	17" (front panel to N connector)
Weight	21.5 lbs

Functionality

Operating Modes	Point to Point, Point to MultiPoint, Enhanced MultiPoint, Peer to Peer
Roles	Access Point, Endpoint, Repeater
Networking	Static IP Routing, Net Filtering, Port Forwarding, Network Address Translation, Modbus Bridging
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, QoS
Quality of Service	Four Levels of VLAN QoS
Serial Services	TCP/UDP Terminal Server, TCP Terminal Client, Modbus RTU Server
Error Handling	CRC, FEC, Retransmit on error
Error Correction	Golay, Reed-Solomon
Data Encryption	128 & 256-bit AES Payload Data Encryption
RF Encryption	128-bit AES RF Overhead Encryption
Repeater	Store-and-forward
MultiMaster	Synchronization of Collocated Access Point or Multiple Access Point within a Network
MultiSpeed	Up to 4 Data Rates within the Same Channel Bandwidth
Diagnostics	Neighbor List, RF Ping, RF Throughput, RF Statistics, IP Ping, Traceroute, IPERF, TCP Dump, DNS Lookup, Serial Statistics, Modbus Bridging Statistics

XetaCS Specifications

Ordering

XETACS-CHASSIS	Communications Station chassis for use with single channel radios
XETARCS-CHASSIS	Redundant Communications Station chassis for use with dual channel radios
XETACS-PS-936	9 to 36 VDC input power supply kit
XETACS-PS-AC	110 to 240 VAC input power supply kit

Ordering Instructions:

XETACS — Order three different items: one (1) chassis, two (2) power supplies, and (2) standard single channel metal enclosed radios). The product will come completely assembled and tested.

XETARCS — Order three different items: one (1) chassis, two (2) power supplies, and (2) standard dual channel metal enclosed radios). The product will come completely assembled and tested

