

# OMNI Messaging Server

- Browser Messaging • Smartphone Alerting • E-Mail Alerting • Nurse Call Monitoring • Radio Paging
- 2 to 5 Watts • TAP, COMP1, COMP2, SCOPE, SIP Protocols • POCSAG Encoding • UHF/VHF



*“Enhancing Mobile Alert Response”*

Visit Our Website at:

[www.WirelessMessaging.com](http://www.WirelessMessaging.com)

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The WaveWare **OMNI** Messaging Server allows you to combine nurse call alerting with business messaging in a single embedded system. Combine pagers with smartphones for alerting. You own All of the Equipment.

Nurse call alert messages and business messages can be delivered to pagers, smartphones, e-mail

Ethernet and 2 RS-232 Ports

## Features:

The Superior Features of the WaveWare **OMNI** Messaging Server Include:

- **Ethernet** Port – Supports up to 2 TCP/IP Nurse Call Monitoring Connections, and up to 125 browser and/or smartphone connections
- **Serial** RS-232 Com Port (DB-9 Female) – Qty. 2
- Simultaneous Nurse Call monitoring via Two Serial Port and up to Two Ethernet Socket Connections
- Simultaneous browser message monitoring via multiple browser connections
- Simultaneous low-latency smartphone (Android) messaging connections
- Supports TAP, COMP1, COMP2, SCOPE, SNPP, WaveWare and Rauland SIP Proprietary Interface Protocols
- Compatible with Industry Standard POCSAG Pagers
- Supports POCSAG Alphanumeric, Numeric and Tone / Vibrate Messaging at RF Data Rates of 512, 1200 and 2400 bps
- Available in UHF Models (400-430 MHz and 440-470 MHz) or VHF (138-174 MHz)
- Supports TAP Interface Protocol v1.8 with Enhancements Including Control Character Embedding, Extended Pager ID Processing and Function Code Control
- Configurable using Web Browser.
- Programmable IP based and Serial Com Port Settings and Protocols
- Pagers, RF Amplification Kits and FCC Site Licensing Services are also Available
- Station ID Transmission
- **NOTE:** The Frequency is **Not** Field Programmable



P/N= 0100-3001 2 or 5 watts

## Compatibility:

The WaveWare **OMNI** Messaging Server is Compatible with Many Host Systems, Including:

- A Variety of Nurse Call Systems
- WaveWare Alert Utility Software
- Fire Alarm Monitoring Panels
- Alarm Contact Monitoring Systems
- A Variety of Security Systems
- Browser (Internet Explorer with Silverlight)
- And Many Other Host Systems

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# OMNI Messaging Server

## **Beneficial Features:**

The WaveWare **OMNI** Messaging Server offers many Beneficial Features, Including:

- **Ethernet** and **Serial** Connectivity – Configurable using Browser (Internet Explorer with Silverlight)
- Simultaneous Monitoring of up to Two Ethernet Socket Connections and Two Serial Port Connections for nurse call system protocols, with Independent Configuration of Interface Control Protocols on each Connection
- Simultaneous interface on up to 125 Browser and/or Smartphone connections
- Support for DHCP or Static IP Address
- Discover All WaveWare OMNI Messaging Servers on the LAN using the Discovery Software
- Economical, Eliminating Wide Area Paging Service Fees
- Allows you to blend Nurse Call and Browser based Messaging
- Allows you to blend Pagers and Smartphones and E-mail Notification
- Long Range Campus Wide Coverage (5 watt System Provides up to a 3 mile Coverage, Depending upon the Local On-Site Conditions)
- Supports Alphanumeric, Numeric, and Tone / Vibe Messages
- Supports Paging RF Data Rates of 512, 1200, and 2400 bps, with Data Rate Auto Switching
- Smartphone integration requires WaveWare Alert Client App (Android OS) and WiFi coverage
- Industry Compatibility using a choice of Several Industry Standard Interface Protocols
- Recipient Database can be Configured using internet browser (Internet Explorer with Silverlight)
- Shared Use FCC Site Licensing available for UHF Models - Amp Kits Available for Output of 25 & 50 watts

## **System Specifications:** ***NOTE: Frequency is Not Field Programmable, Factory Preset Only***

- **Ethernet** Port: RJ-45 Female, Supports up to Two TCP/IP Connections on Independent IP Port Values. Also supports up to 125 Browser and/or Smartphone Connections
- **Serial** RS-232 Com Ports: Dual Serial DB-9 Female Com Ports
- Serial Port Configuration: 300, 1200, 2400 or 9600 Baud and Even or No Parity and 7 or 8 Bits
- Rubber Duck Antenna Connection: BNC Female
- Recipient Database: **5,000 Plus** Programmable using Web Browser
- Frequency Source: Synthesized Transceiver - TecNet Maxon SD-125E or Apollo TX-125
- Frequency Range: UHF2 (440-470 MHz), UHF1 (400- 430 MHz) and VHF (138-175 MHz)
- Frequency Stability: Models UHF  $\pm 2.5$  ppm, VHF  $\pm 5.0$  ppm
- Transmitter Operations Rating: Intermittent, 66% Duty Cycle
- Power Supply: 12vDC 3.75A (or Higher Amp) AC / DC Adaptor
- Operating Temperature: 30° C to 60° C (22° F to 140° F)
- Modulation Deviation:  $\pm 2.5$  KHz (**Narrowband**)
- Bandwidth: 12.5 KHz (**Narrowband**)
- RF Power Out (Watts): 5 Watts Nominal (Available "Factory Preset" from 1- 5 watts)
- Transmitter FCC ID: UHF = RXUSD-125EU2 (Maxon) -
- Transmitter Canada ID: UHF = 153B-SD125EU2 (Maxon)
- Dimensions: Approx. 9" (H) x 8.5" (W) x 2.25" (D)
- Weight: Approx: 8.5 lbs (Including the Antenna, P/S, Cable and CD)

## **Packaging:**

The **OMNI** Messaging Server Comes Packaged with Everything you need to Configure and Install the System:

- Qty. One - Rubber Duck Antenna with BNC Male Connector
- Qty. One - 6 or 10 ft. Standard RS-232 Serial Cable – DB-9 Male to Female
- Qty. One - 6 or 10 ft. Standard Ethernet Cable
- 12vDC Power Supply - AC / DC Adaptor and Mounting Hardware - Screws and Plastic Wall Anchors
- Support CD with Installation Software, Quick Start Guide, User Manuals, Installation Diagrams & More