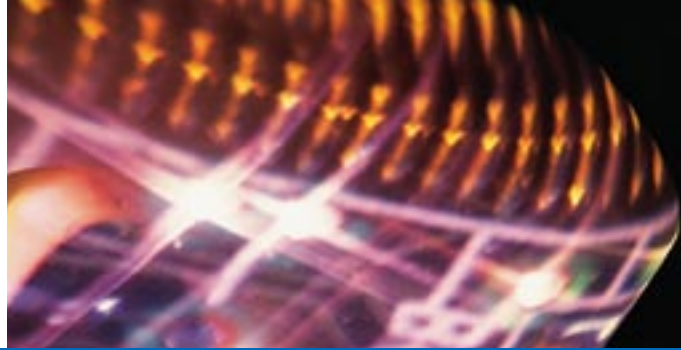


Base Stations & Link Transmitters

Quantum & Stealth
72, 150, 450 & 900 MHz



FEATURES

- Advanced FLEX™ & POCSAG Technology
- Analog and/or Digital Capability
- Solid-State Continuous Duty
- Advanced LDMOS Technology
- HEAT TRAP™ Thermal Control
- High-Stability, Full-Simulcast Compatibility
 - Stand-Alone
 - With Other Brands of Transmitters
- Front Panel Metering & Display
- Rack Mount Modular Design
- Low, Medium & High Power to 500 Watts
- Lockable All-Welded Construction Cabinets
- Easily Removable Doors for Ease of Service
- Hot Standby Option Available (Quantum Only)
- Networked System Compatibility
- Supports Most Receiver Interface
- C-NET™ NIU, C2000, Link 20, PURC, TNPP and all other standard Interface Compatibility



Base Stations & Link Transmitters

Quantum & Stealth – 72, 150, 450 & 900 MHz

Base Stations

The E-RF Wireless QUANTUM & STEALTH 72, 150, 450 and 900 MHz Base Stations of low, medium and high power have the features, reliability, dependability and cost advantage to lead you down the road to improved profits.

The QUANTUM & STEALTH Base Stations provide new capabilities not found in similar products. These solid state, advanced-design Base Stations were designed with reliability, ease of service and user features as the major objective. Ideal for stand-alone or simul-cast operation, the QUANTUM & STEALTH Base Stations feature highly modular design with the major functions in easily removable rack modules, as plug-in boards, or as programmable software features.

These features include such major components as the high-stability exciter module, the optional link receiver module, the base station controller, the phase delay and the power amplifier. The major difference between the QUANTUM & STEALTH Base Stations is in the way the Base Station is packaged. The QUANTUM Base Station employs a standard four-foot-high cabinet and has adequate spare room for mounting additional equipment if necessary, as well as excess cooling capacity for additional equipment.

The STEALTH Base Station utilizes the minimum-size cabinet to accommodate the full Base Station and allows front access to all components through a unique mounting technique. Another major feature on all QUANTUM & STEALTH Base Stations is compatibility and interchangeability. Most major modules are fully interchangeable, whether they are from a low-power unit or a high-power, fully-configured Paging Base Station.

These features make E-RF Wireless QUANTUM & STEALTH Base Stations the most advanced products available today.

Rack Mount Transmitters

All E-RF Wireless Transmitters above 100 watts come equipped with the E-RF Wireless HEAT TRAP™ design to provide the user with long-life high-reliability performance even under the most extreme operating conditions.

The small footprint of all E-RF Wireless Transmitters allows easy interface in most existing cabinets or in the optional slim-line cabinet provided by E-RF Wireless. Power and frequency options cover all of the many combinations of system requirements found in today's paging and link systems.

Options

- Link or Satellite Receiver
- Base Station Controller Format
 - Link 20X Format
 - C Net, C 2000, PURC & TNPP
- Phase Delay Module
- Multiple Frequency Operation (up to 8 frequencies)
- Hot Standby Panel
- Dual-Tier Link Control
- Remote Diagnostics Board
- All-Weather Cabinets
- Full 4-Level Flex™
- Customized System Interfaces
- International Frequencies
- 72, 150, 450 & 900 MHz Receivers

Base Station Specifications

Frequency Range 72, 150, 450 & 900 MHz
(International Frequencies Optional)
Power Output 50 - 500 Watts (depends on frequency)

Transmitter Specifications

RF Output 50–500 Watts
Impedance 50 Ohms (Type N Female)
Frequency Stability 200 ppb standard:
50 ppb (Optional High Stability)
5 ppb (Optional Ultra High Stability)
Duty Cycle 100% at full-rated power
Modulation Analog or Digital
Audio Response ±1 dB, 30-3000Hz at 3.3 KHz deviation
Data Rates 50-6400 Baud*
Distortion Less than 1.5% for any frequency in audio pass band at ±3.3 KHz deviation (Analog Models)
Audio Input Channels Voice & Tone: 600 Ohms, Balanced
One standard, up to 8 optional

Receiver Specifications (Link Receiver)

Frequency Range 72, 150, 450 & 900 MHz
(International Frequencies Optional)
Frequency Stability ±0.002% (-30° to +60° C)
Sensitivity 0.60 µV, 12dB SINAD;
1.8 µV, 20 dB quieting
Audio Response ±1 dB, 30-3000 Hz
Audio Distortion 1.5% max. at 66% modulation
Audio Output -5 dBm nominal

Mechanical & Power

Primary Power 115/230 VAC ± 10%, 50/60 Hz or 22-28 VDC
Power Consumption 180 to 2000 Watts depending on output power
Dimensions

Quantum	Stealth	Rackmount Transmitters
22 inches W	22 inches W	19 inches W
48 inches H	31.5 inches H	10.5 inches H
22 inches D	11.5 inches D	8 inches D
200 pounds	135 pounds	35 pounds

Stealth units come equipped with stacking interface

*Exact Rate depends on control format and data source interface.

Satellite Receiver compatible with all major brands of satellite receivers.

FLEX™ is a registered trademark of MOTOROLA

Equipment specifications and features subject to change without notice.

Some E-RF Wireless technology is licensed from Eagle Wireless International.



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