



Upcoming Events

NAPCO (APCO)

Monthly meeting,
February 11, Stockton

CAL-NENA March 1-2,
San Diego, CA

APCO WRC, March 7-9
Portland OR

IWCE Show, March 23-
24, Las Vegas Con-
vention Center, Las Vegas

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SEPURA DMR is the **2**
solid choice in your
move to Digital Radio

BIRD TXRX Rescue **2**
Line of Channelized
Signal Boosters and
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Communications
Launches Stratus
Storm smart phone
app for Stratus Porta-
ble repeaters.

RELM BK Radio S **3**
series LOW BAND
repeaters and base
stations for public

CLEAR-COM IP **4**
Gateway is an
interoperability
platform for linking
and bridging radio
communication
systems

The Sales Group MANUFACTURERS REPRESENTATIVES

WIRELESS NEWS

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Northern CA, Northern NV

AVTEC's Easy affordable interoperability for your ASTRO Conventional Radio System.

The Radio Internet Protocol Communication Module (RIC-M)[™] offers uncompromising, affordable, in-
teroperable communications for any joint operation or crisis.

[Download
RIC-M Flyer](#)



This new module allows federal, state, and local public safety agencies to solve two common challenges:

- Bridge the gap between legacy radios, dispatch consoles, and legacy base stations.
- Cost-effectively extend the life of legacy base stations while preparing for tomorrow when equipped with **Avtec's Scout true IP console.**

RIC-M[™] uses technology developed by the U.S. Department of Homeland Security's Science and Technology Directorate. With a single Ethernet connection, this box replaces a proprietary interface with one that is P25 CFSI- compatible.

- Uses a single Ethernet connection.
- Replaces a proprietary interface with one that is P25 CFSI-compatible.
- Will fit into your existing radio network.
- Allows for phased replacement of base station subcomponents.
- An easy, "plug and play" upgrade to TIA Standard 25 Fixed Station Interface Messages and Protocol.
- Easily replace leased copper back-haul circuits with IP.
- Compatible with Avtec's Scout[®] and other future-forward dispatch consoles.



SEPURA DMR Radio

Sepura DMR is the solid choice for your **move to digital** mobile radio available in VHF and UHF Frequencies in single site, multi site trunking IP Connect, and Tier 3 multi-site trunking.

Portable radios offer outstanding levels of robustness and ruggedness, with their IP67 rating. 1024 Channels, color display, and combined with **1W audio** output and advanced functionality and quality, they meet the demands of users across a broad spectrum of business, and industries.

Mobile radios – a sophisticated, fully-featured DMR mobile radio, which offers 1024 channels with advanced functionality, flexibility and robustness. Primarily targeted at users in industrial organizations and other commercial businesses who use their vehicle radios on a daily basis and need these features as standard.

Repeaters Featuring up to 45W of power, ease of installation and an impressive array of features and functionality, the repeater is positioned to provide the cornerstone of Sepura DMR networks. Available in **Single Site**, and **Multi-Site IP Connect** supporting up to 16 sites and Tier 3 **Multi-Site Trunking**.

Available from Authorized radio dealers.

sepura

DMR
DIGITAL MOBILE RADIO ASSOCIATION



BIRD TXRX RescueLine Signal Boosters

RescueLine Signal Booster Series - Complies with New International Fire Code and National Fire Protection Association (**IFC/NFPA**) Standards. The SBII and the SBIII Series have models that are part of the RescueLine product family.

613-8 Series, 700/800 MHz, Digital Signal Booster operates in the 700/800 MHz range with channelized 1-60 programmable digital filters for both uplink and downlink. Filter center frequency and characteristics are fully programmable to meet the demands of various systems and signals such as APCO 25 phase II. Filter bandwidth is programmable from 6.25 KHz to 15 MHz. All state-of-the-art product components are protected by a NEMA 4 style enclosure to meet the demands of the **NFPA** requirements. Intuitive web browser interface allows booster to be easily configured for changing RF environments.

We have DAS (Distributed Antenna Systems)

More information at:
www.birdrf.com

Bird Technologies®



MADE IN
U. S. A.

CODAN releases the Storm and Lite for Stratus

Codan Radio Communications has launched the Stratus Storm smartphone app and Stratus LTE as next generation capability for its Stratus product portfolio. The Stratus Storm app enables non-radio carrying users to seamlessly communicate on their P25 network, providing a direct link into a Stratus wide area network from anywhere with cellular coverage. The app is supported on both Android and iOS platforms.

"The addition of the Stratus Storm app provides a more robust and complete Stratus Network solution, enabling new users to be added to a secure P25 network as easily as installing an app on a smartphone, at a fraction of the cost and time to add new subscriber units" said Ben Pearce, Director of Sales at Codan Radio Communications.

In addition, Codan Radio has released Stratus Lite, a compact P25 repeater/base station that has an optional expansion to a full Stratus repeater to enable future LTE (3G/4G) capability. Stratus Lite has all the strengths of a standard Codan repeater; low power consumption, ruggedness and rapid deployment, while also enabling a customer to upgrade with an LTE modem, Universal Interface Card and cellular networks optimized P25 DFSI firmware to enable P25 communications over LTE.

Stratus Lite gives customers the ability to invest now in the future capability of their P25 network. With Stratus Lite, they receive the repeater and/or base station functionality they need immediately, then can optimize their P25 coverage area in the future with the LTE upgrade.



RELM BK Radio S Series Low Band Repeaters

RELM's S series LOW BAND repeaters and base stations are the only Low Band site equipment available in the US market. Low Band frequencies available in two models, 30-39 MHz and 39-50 MHz Public Safety Grade.

255 channel capacity

Repeats analog transmissions

In-Band or Cross-Band configurations

Programmable External PTT mode in Analog

Flash based software design allows future upgrades for new features

Standard Analog S-Series Series can be upgraded to P25 compliant.

Frequency Stability: 20 PPM for VHF-Low Band (30-50 MHz)

RF power output (Continuous Duty): 50 or 100 Watt models

Options included

LZAST03: Programmable CTCSS/CDCSS Encoder/Decoder

LZAST08: VF Audio Delay (Noiseless Mute)

LZAST13: Local Speaker and Microphone Input

LZAST14: Local 99 Channel Selector

LZAST15: N-Type RX Connector (TX N-Type) **LZAST16:** 1.0 ppm Frequency Stability **LZAST32:** Front Panel adjustable Line I/O levels & Front Panel RS232 port (in parallel w/rear port)



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The Clear-Com IP Gateway

Clear-Com® Gateway is an interoperability platform for linking and bridging communication systems to deliver advanced radio interfacing and IP connectivity on a single platform.

The Clear-Com Gateway platform consists of the compact CG-X1 and CG-X4 devices for connecting 2-way radios, intercoms, telephones and IP networks. The CG-X1 is the 2-port option for remote sites and single-channel bridging. The CG-X4 carries a higher port density of 8 ports in a small form factor. Up to 16 ports can be housed in a single, standard 19" 1RU space with optional rack mount kit.

Clear-Com® Gateway bridges radio channels across different radio platforms, port-to-port, port-to-multi-port and Radio-over-IP (RoIP). The digital radio module allows analog-to-digital and digital-to-digital bridging and conferencing on one platform.

Gateway devices offer advanced radio interfacing for analog and digital radios with a suite of programmable features to meet the most demanding radio and Land Mobile Radio (LMR) applications. When connected to Clear-Com intercom systems, 4-wire port signaling is provided to activate features and trigger radios.

Clear-Com® Gateway is compatible with Project 25 (P25) and Digital Mobile Radio (DMR) standards.



Clear-Com Gateway supports standards based IP interfacing for Voice-over-IP (VoIP), RoIP, Unicast, Multicast and SIP applications for connectivity and interoperability. Each IP module comes with eight SIP accounts. When connected to Clear-Com intercom systems, SIP applications become accessible.

Each gateway device is configured using modules. The 4-wire module connects intercom, radio and audio sources. The VoIP module connects SIP and RoIP with Unicast and Multicast modes. The digital radio module is a 3-channel module that incorporates Digital Voice Systems' AMBE™ 3003 VoCoder technology for gateway applications with digital mode radio systems. The CG-X1 supports one module with 2 ports and the CG-X4 supports 4 modules with

8 ports.



We are on the web

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