



Hitachi Kokusai Electric Comark Announces NEW VHF E-Compact High-Power Air-Cooled Transmitters

Southwick, MA, August 8, 2023 – Hitachi Kokusai Electric Comark LLC (hereinafter “COMARK”), a manufacturer and supplier of DTV transmitters, encoding systems, and associated field services for over 50 years, has announced the introduction of the NEW EC600HP-BB3 VHF Band 3 *E-Compact* series high-efficiency, air-cooled solid-state DTV transmitters.

The EC600HP-BB3 product line is available with up to 4 x PA’s in parallel, producing from 1150W to up to 4.6kW respectively. These output power levels are measured after the mask filter. This new VHF band 3 *E-Compact* delivers the same features as the field proven UHF version including:

- EXACT-V2 digital TV exciter licensed for ATSC 1.0, optional license for ATSC 3.0
- Hot-swappable rectifiers accessible from the front panel of the PA chassis
- Dual commercial off-the-shelf GE AC to DC rectifiers per PA in load share mode
- Single drive exciter & controller or optional dual drive with auto switching
- Newly improved system controller with a simpler Graphical User Interface (GUI)
- Built-in surge protection devices (SPD) to minimize power grid overvoltage
- Optional front panel touch screen for easier user access to the control / monitoring GUI

The EC600HP-BB3 features the latest broadband Doherty LDMOS RF power amplifiers with efficiency of up to 40%. The air-cooled PA design includes automatic cooling fan speed control that provides lower acoustic noise levels during operation while extending the life span of these fans. Each 3RU PA features a rear-panel plug-in design for easy installation and maintenance. Multiple RF amplifiers are combined with an insulated RF combiner enabling Hot Swap of the PAs.

The transmitters use a built-in Embedded WEB Server that provides control and management of the transmitter through a web-GUI (via PC or mobile phone standard browser) without the need for any external software or drivers. SNMP for transmitter remote control and monitoring is also available.

The *E-Compact* features the field proven EXACT-V2 IP Optimized DTV exciters with DualCast technology and is easily upgraded from ATSC 1.0 to 3.0, protecting your investment today for use tomorrow. EXACT-V2 delivers an ATSC compliant, on-channel RF output and performs RF precorrection of both linear and non-linear distortion via Digital Adaptive Precorrection (DAP) technology. DAP automatically corrects both the linear and non-linear system distortions inherent to all DTV systems. The use of DAP provides the lowest cost of operation with very high system efficiency and RF SNR performance.

The *E-Compact* family is compact and rugged, perfectly suited for broadcasters looking to replace their older and less efficient equipment or for future ATSC 3.0 SFN systems. More information on the new EC600HP-BB3 series is available on our website: <https://comarktv.com/products/high-power-vhf-b3-air-cooled-solid-state/>

News Release

HITACHI
Inspire the Next

About Hitachi Kokusai Electric Comark LLC:

For over 50 years COMARK has been synonymous with broadcast expertise and innovation. A trusted partner to the world's leading broadcasters, COMARK has pioneered many developments that have shaped the industry, leading innovation in IOT & MSDC-IOT technology, transistorized solid-state technology, Digital Adaptive Pre-correction (DAP), and also winning multiple Emmy® Awards; and gaining numerous patents in technologies that have become fundamental to broadcasting. COMARK is now building on this great heritage with the release of an entire new range of transmission products for terrestrial television broadcasting, and state-of-the-art products for scientific/industrial RF applications. With thousands of active COMARK transmission systems deployed worldwide and a global support presence, COMARK plans to lead the way in developing technologies for the future, with efficiency and performance initiatives for improving coverage and saving power.

Emmy® is a registered trademark or trademark of The National Academy of Television Arts and Sciences, Inc. and Academy of Television Arts and Sciences Corporation.

Look for Hitachi Kokusai Electric Group at

TAB 2023, booth # 116

Information about products from COMARK is available at www.comarktv.com.

Contact:

Joseph Turbolski

VP of Sales & Marketing

Tel: +1 413 998 1100

Email: jturbolski@comarktv.com