

## **Hitachi Kokusai Electric Comark Introduces Outdoor Tower Mount SFN ATSC 3.0 Transmitter**

Las Vegas, NV, April 2, 2019 – Hitachi Kokusai Electric Comark LLC (hereinafter “COMARK”), a manufacturer and supplier of DTV transmitters, encoding systems, and associated field services for over 45 years, will introduce a new tower mounted, ATSC 3.0 transmitter solution at NAB 2019. This new product will be on display at the Hitachi Kokusai Electric Group’s booth (#C4409).

ATSC 3.0 deployments are beginning to bring new and exciting services to both broadcasters and consumers. Broadcasters will initially be deploying ATSC 3.0 on their current tall tower, high power DTV transmitter systems, and many are discussing implementing Single Frequency Network (SFN) solutions to increase signal coverage within a given market area.

Current transmitter technologies for SFN implementations utilize indoor, medium-power DTV transmitter solutions with output power levels ranging from 500W to 5kW. Another option to implement SFN will be to use multiple, small cell, tower mounted transmitters to further enhance signal distribution and redundancy.

At NAB 2019, COMARK will be debuting a dedicated tower mount product. This new transmitter technology is specifically designed for small-cell, SFN ATSC 3.0 architectures supporting TDM, multi-PLP, LDM, etc. The SFN transmitter architecture features:

- Environmentally sealed package; ideally suited for tower mounted applications near the Tx antenna
- Supports UHF; 5W to 50W RF output power levels using 50VDC LDMOS technology
- 7-16 DIN RF output connection to Tx antenna
- A/324 STLTP (IP) signal input, -48VDC power input
- Built-in SNMP for remote network monitoring and control
- Integral GPS receiver for precise SFN timing
- Optional satellite IRD card

“The introduction of a tower mounted transmitter solution is a natural progression in our product line offering,” says Dick Fiore, President and CEO of COMARK. “We have many ATSC 3.0 transmitters already on-the-air, including SFN systems in both medium and low power levels. Our engineering team has been working diligently on this new tower mounted product, and we feel it represents the future of SFN deployments for Next Generation Broadcast Television services.”

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***About Hitachi Kokusai Electric Comark LLC:***

For over 45 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 entirely 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 continue to develop technologies for the future, with efficient performance initiatives that improve coverage and save power.

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***Look for Hitachi Kokusai Electric Group at NAB  
2019, booth # C4409.***

Information about products from COMARK is  
available at [www.comarktv.com](http://www.comarktv.com).

Contact:  
Joseph Turbolski  
VP of Sales & Marketing  
Tel: +1 413 998 1100  
Email: [jturbolski@comarktv.com](mailto:jturbolski@comarktv.com)