



INTERTALK™ Console System

InterTalk's Radio console system is at the core of your operations. With its advanced IP architecture, InterTalk lets you see and control your communications infrastructure. InterTalk connects your world: radio, telephone, analog, digital, social media - whatever you use, InterTalk's flexible design enables you to strike the right balance between what to see, when to see it, and what to do about it. Whether it is public safety, transportation, critical infrastructure, government, or private enterprise applications, InterTalk allows effortless, powerful, and continuous manage-

ment of your critical information. InterTalk is engineered to the highest standards of availability and is simply the most complete console system available.

InterTalk has an interface for any communication requirement in both your operations center and the field. Whether it is legacy LMR, or the latest digital protocols, our collaborative approach to system design will result in a system that meets your exact operational needs. InterTalk provides you one consistent dashboard, so no matter the technology, it works the same where it matters most: at your workstation.

Dispatch roles and screens can be configured to display the exact functions you need in your daily operations.

InterTalk is a complete suite of cooperating applications: a console system, a voter, an advanced archival logging recorder (Transcript™), a conventional transmitter steerer, a page encoder, and more. Combined with our development capabilities for integrating 3rd party systems for CAD, AVL, GIS, NMS, SCADA, and others, InterTalk gives you an industry-leading solution that can be tailored to meet your exact requirements. Ω



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TXRX - 434B TTA System

The TXRX 434B Mission Critical Series, Auto Quad Tower-Top Amplifier (TTA) System is a high performance, quadrature-coupled low noise amplifier (LNA). The TTA increases receive sensitivity, reduces transmit signal interference and can make all the difference in Mission Critical Communications.

The TTA operates independently, monitoring LNA current and automatic switching to a redundant LNA if needed. Status reporting is accomplished via AISG compliant telemetry

between the controlling processor in the Tower Box and the base control unit. The base control unit has an on board AISG modem device which does not require the use of an external data cable. This telemetry does not interfere with RF Signals in any way and communicates the LNA currents, temperature and operational status to the base control unit LCD display. Test modes and manual switching between LNA's is also accomplished by way of the telemetry system.

The TTA consists of two

components: the tower top amplifier mounted close to the antenna and the control unit. The control unit is available in two styles, either with or without a receiver multicoupler. In order to reduce the size of the TTA and simultaneously provide 120 dB of isolation of a TX carrier, filtering has been split between the TTA and the base unit.

Industry leading TTA amplifier linearity guarantees superior immunity to inter-modulation interference.

Contact us today for more information. Ω



Digital Whitepaper

Digital radio systems operate differently than legacy analog systems.

New Tech/New Tuning

Although digital radio alignments are similar to analog radio alignments, digital radios require more precise alignment to achieve optimum performance and must be verified for digital modulation performance.

Proper alignment can improve performance to maximize and deliver the high performance that digital technology was designed to provide. Improper alignments can cause degraded digital modulation accuracy, significantly impacting the receiver's ability to recover digital data.

Extensive lab testing using recorded digital radio RF

transmitter parameters shows that modulation alignments of the radio's transmitter parameters can positively or negatively affect performance of another digital radio's receiver.

In some instances, this can affect range to the same extent as a 75-percent reduction in power. With an understanding of digital radio operation and alignment, proper setting of audio filter parameters and the use of accurate deviation meters can significantly improve the performance of those radios.

Conversely, using inaccurate deviation meters compounded by improper filter settings and lack of knowledge of meter specifications and operation, can dramatically and negatively

impact digital radio performance.

Most RF professionals are aware of coverage studies that are related to transmit power variations. Assuming all things are equal except for power level, the coverage area becomes smaller as the radio's transmitter power level decreases. This is expected and would hold true for both analog and digital systems. However, with digital systems, additional factors can cause issues with coverage, in particular the quality of the transmitted digital signal.

Follow the link to our website to download the complete whitepaper.

<http://www.alster.com/video-white-papers/> Ω



**Viavi
3920B
Service Monitor**

Viavi -8800SX Service Monitor

The 8800SX expands upon the unprecedented features of the 8800 Series with a 10 MHz external reference and new software capabilities to further speed testing of today's Land Mobile Radio systems.

With its hybrid portable design, the industry's largest color touch-screen display, ruggedness, internal battery, power accuracy, advanced automated test and alignment, fast VSWR/Return Loss and Cable Fault measurements, the 8800SX offers RF professionals a

whole new experience in radio test.

The 8800SX combines the performance and features of a bench-level test set with the portability and ruggedness of a field-level instrument. Weighing only 17 lbs (7.71 kg), an internal battery with 2.5+ hour of operation, and rugged 30 G shock rating, now test professionals will no longer compromise portability for critical test features.

The 8800SX is designed for maximum test efficiency. With the industry's largest

display, ultra-fast store and recall "Presets", and its unique "Fast-Stack" user interface that allows test tiles to be stacked on one another and quickly accessed, test professionals can set up analog and digital tests in seconds and have instant access to more displayed meters and test functions.

Ω



**Viavi
8800SX
Service Monitor**



OTTO - NoizeBarrier Pro™

The NoizeBarrier Pro from OTTO Communications is a fully modular tactical communications headset that provides advanced situational awareness capabilities with exceptional sound localization and crystal-clear audio Tx and Rx.

NoizeBarrier™ impulse noise protection reduces sound levels to safe levels of 85dB to prevent hearing disruption. Enhanced hearing amplifies soft sounds that might not normally be

heard and boosts hearing while still providing protection. The situational awareness volume control is independent of radio volume.

The NoizeBarrier Pro is field changeable between headband over-the-head and helmet mount systems. With advanced talk-through electronics for situational awareness (SA), it provides exceptional recovery when impulse noises are detected with no delay experienced in hearing allowing the user to continue to hear normal

sounds like voices.

NoizeBarrier Pro provides the following features: 5 step volume control • Passive Attenuation: Min 23 dB NRR • Reversible boom • SCBA-compatible connector for gas mask interface • Talk-through powered by two AAA batteries • Powered by radio if batteries depleted • Immersion rated 3 feet/31 Minutes.

Contact us for more information or a demo. Ω



**NoizeBarrier Pro™
Headset**

JPS Interop - Z2 Controller

The New Z2 Controller creates a capable wide area interoperability system, tying together the wide range of various voice communications devices interfaced to it remotely via dual channel RSP-Z2s and other means.

As many as 80 remote communications systems

can be interfaced to create a large and capable wide area interoperability system. Easily create interoperability nets that cross-connect the various voice communications systems interfaced to the Z2 Controller.

Using the browser-based GUI and a variety of audio

options including a USB headset, Desktop boom mic, radio handset, etc., a dispatcher can monitor and/or converse with any number of the Z2 Controller's connected systems. Ω



**JPS Interoperability
Z2
Controller**

Times, RodentRepel LMR Cable

Times Microwave Systems has introduced a new series of LMR® cable products which are resistant to rodent damage. The RodentRepel® cable jacket contains a proprietary non-hazardous, non-toxic additive that discourages rodents and other animals from chewing the cable. The additive is environmentally safe and not harmful to

humans, birds or animals. The repellent exhibits a scent that animals readily associate with predators and interpret as a danger signal but that is imperceptible to people. Times RodentRepel® coaxial cables also include the LMR® watertight "DB" feature for excellent resistance to water ingress and are compatible with all Times connect-

ors, tools and accessories. LMR-400-RR-DB

LMR-400 watertight, RodentRepel, Black PE jacket LMR-900-RR-DB

LMR-900 watertight, RodentRepel, Black PE jacket.

Give us a call for more information. Ω



**Times Microwave
RodentRepel
LMR Cable**



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**More information
 at: [http://
 www.alster.com](http://www.alster.com)**



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Alster News

Cadex - C7X00 Series Analyzers

The Cadex C7x00 Series battery analyzers offer a platform that fulfills virtually all battery testing and conditioning needs. With features such as QuickSort™ that checks lithium-ion batteries in 30 seconds, and Boost that revives dead packs, the C7x00 truly masters battery testing.

Slide a battery into one of our 1,500 custom Battery Adapters, or use a Universal Adapter and you will discover why the C7x00 has become the world's leading battery analyzer.

The C7200 Two-Station suits smaller organizations and storefront operations. 40 watts of charge power at 4 amps per station ensure quick service of larger batteries.

The C7400 Four-Station with four-stations and 80 watts of charge power, the Cadex C7400 is most economical in terms of cost per station.

The Cadex C7400ER is the most powerful of the C7000 Series battery analyzers. Six amps per station, service of 36 volt batteries and 170 watts of continuous power satisfies most service requirements.

Give us a call for more information.
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ACES 2020

Mark your
 Calendars

Boise, ID May 5th

Butte, MT May 6th

Spokane, WA May 7th