



Alster News

Alster Communications,
LLC

Volume 14, Issue 5

May, 2010

Times-Protection From Lightning

Do you know that Times is providing lightning protection devices? You should and you should know why they are:

Improvements

Times has improved on the industry standards product by making their LP-BTR lightning protection devices in solid brass with a white bronze plating, instead of all aluminum. These units have lower insertion loss and better return loss than the competing IS series and perform better in 10 kA multiple strikes tests.

The Times LP-STR series offers a 800 to 2500 MHz operating bandwidth, which is much broader than the DSX competitive design. It

has lower energy throughput energy (700 pJ vs 0.5 uJ) with better PIM and surge current rating.

Finally, the LP-STR series offers higher power handling @ 500W vs 300W for the DSX and is available in DIN and N type connections.

Weatherization

Using Times LP-GTR series is another good bet compared to the GT competitive designs. The LP-GTR has a IP67 weatheriza-

tion rating compared to the IP65 for the GT series. The design consists of solid brass body and white bronze plating vs aluminum. Finally, you can actually replace the gas tube!

Broader Freqs

Both the LP-STR series, mentioned above, and the LP-GTR series provide a broader operating frequency. The GTR works from DC - 3000 MHz, which compares to the DC - 2400 MHz of the competitive RGT series. Again, you get a solid brass body with white bronze plate and a phosphor bronze, silver plated center pin.

The new Protect product is stocked by many distributors, check it out! Ω



Times - Protect

Times - Changeable Interface

TuffGrip-CI is a revolutionary concept in field test leads. It combines all the features of our original TuffGrip including a rock-steady phase stable coax cable, incredibly robust torque and crush resistant steel armor with patented

TuffGrip technology *plus* the ability to change the coaxial connector interface on the grip to suit the application!

A field technician no longer needs to carry multiple test leads to service different cellular or wireless

radio designs. A single TuffGrip plus a set of changeable interfaces now allows any radio system currently deployed to be tested. Grip length and assembly VSWR are not compromised to achieve this remarkable enhancement. Ω

Inside this issue:

Daniels - Ethernet Con- 2
nection

Narda Microwave-East 2
- Stocked Switches

Lyncole - Engineered 2
Solutions For You

Federal Warning - IP 3
Informer

Aeroflex - 3500 Hand- 3
held Service Monitor

Bird Technologies - 3
Rackmount SignalHawk

Raytheon - Software 4
and Firmware Upgrades



Daniel's - Ethernet Connection

The Daniels digital Universal Interface card (UIC), provides a digital Ethernet connection from the Daniels MT-4 P25 radio system to other LMR sub-systems in a network. The updated Universal Interface Card will provide Daniels customers with enhanced signals through an Ethernet interface including: P25 Unit ID, Emergency Indicator and satellite connectivity.

Catalyst Partner

Catalyst Release 5.7 pro-

vides a full-featured dispatch console for the Daniels MT-4 base station routing digital audio and control messages through an Ethernet interface. Now the Unit ID of a P25 subscriber radio can be seen by the dispatcher, translated into an alias from a centralized database, and stored for visual review and used in conjunction with integrated voice recording. Similarly Emergency messages from P25 subscriber units can be seen and

logged on the Console.

Daniels MT-4 Digital P25 Radio systems are known for their reliability, high performance and customizability. The customizability is due to the modular construction of the transmitters, receivers and associated modules, which are designed for a variety of frequency bands from 136 - 869 MHz.

This collaborative effort has enhanced the flexibility of Daniels radios. Ω



MT-4, P25 Transmit and Receive Modules

Narda - Stocked Switches

If you want Electro-Mechanical switches in a hurry, check out Narda Microwave-East. They have an inventory of common switches instant delivery.

Single Pole Switch

From simple single pole, dual throw (SP2T) to multi-position to latching to fail-safe - they are ready to go.

These common switches are 28 vdc, 50 ohm, 15 ms switching time, break before make, 1,000,000 cycle switches.

De-Energizing

With this option, a set of internally mounted contacts or electronically generated pulses disconnects the

driver voltage as soon as RF contact has been made. This option is only available with latching type switches. Suppression diodes must be specified with this option.

Other options include Indicator Circuitry which allows external monitoring of switch status. Please call me for more info. Ω

Narda Microwave-East stocks commonly needed switches for immediate shipment

Lyncole Site Engineering

Lyncole's Technical Services employs years of real-world experience and a scientific, engineering process to design grounding systems that meet or exceed any site's grounding requirements.

4-Step Grounding

Our 4-Step Ground System Design Methodology is

the process we use to achieve a predictable, controlled result. The purpose of the 4-Step Methodology is to provide a grounding system design with predictable performance. The result is that the grounding system performance will be known prior to installation. It eliminates the need for

continued efforts and site visits.

Each grounding system we design is made for the specific site where it will be installed and to meet or exceed our client's requirements, including clean rooms, towers, buildings or anywhere protection is needed. Ω



Lyncole Design Engineering



Federal Signal - Informer-IP

The **Informer-IP** is a revolutionary device for indoor alerting, two-way communications and email text message phone communications. Sending receiving alerts via email, message, phone, computer pop-up window, and even over disparate hand held radios, the **Informer-IP** initiates intercom sessions, receiving intercom requests, remotely monitoring audio, recording and playing back audio.

Scrolling Message

It is capable of viewing sent alerts over a scrolling message display, hearing alerts over existing PA systems, controlling external equipment, i.e. locking doors, turning on/off lights, etc., sending out alerts individually, by zones, or all devices at the same time, instantly viewing current device status and much more.

The **Informer-IP** com-

municates on the Code-spear platform and is controlled and operated with **Federal Commander** software which lets users configure programming and activation setup. Alerts to the device can be sent by live voice, pre-recorded voice and tone wave files, or text-to-speech. The **Informer-IP** was designed for both emergency purposes and day-to-day operations. Please give me a call to discuss. Ω



Informer-IP

Aeroflex - Handheld Monitor

Aeroflex has uniquely designed the **Aeroflex 3500** portable radio test set for complete testing of installed radio communication systems. The 3500 is ideal for testing installed radios in ground vehicles and in rotary and fixed wing aircraft. This is because it is lightweight, portable and able to test both the transmitter

and receiver of HF/VHF/UHF AM and FM radio communication systems, without having to remove them.

Over-The-Air-Test

Over-the-air testing of an installed radio requires that you follow a consistent testing procedure. The affects of multipath can

greatly change the results, especially for over-the-air signal strength and sensitivity checks.

It is best to choose a location where the 3500 has line of site path to the antenna(s) of the radio under test, then continue to use that spot when performing the test. Find more info at www.aeroflex.com. Ω

*Aeroflex - 3500
Handheld Service
Monitor, now with
P25*

Bird - Rackmount SignalHawk

Are you overloaded with expensive field test equipment? The **Bird Technologies Rackmount SignalHawk** is an ideal solution for field and stationary techs who carry or have access to a computer.

The 19" X 10" X 3.5" size allows you to rack-mount the unit wherever

you need to. The **SignalHawk** uses your computer as its display and measures intended and interfering signals, allows setup of parameters such as frequency and amplitude markers, displays signal amplitude vs. frequency and saves traces on your laptop.

Here's the good info -

Frequency Range: 100kHz to 3.6 GHz, -135 dBm Noise Floor, Directivity: -42 dB, Waterfall Graphical Display and Intuitive Menu Interface with One Button Setup and Help. Want to try it? Bird has an SH-365-RM set up in Solon, waiting for you to log in and play. Call for the access info. Ω



**Bird Technologies
Rackmount Hawk**



Raytheon - Making Upgrades and Updates Easier Than You Might Think

Raytheon/JPS Communications, wants you to keep your equipment current and provides a web page where you can download the following software and firmware updates:

ACU Simulator (used with the ACU-2000 IP, ACU-1000, ACU-T products),

ACU Controller Software (ACU-2000 IP, ACU-1000, ACU-M, ACU-T),

ACU-M Software Upgrade (ACU-M),

ARA-1 Software Upgrade (ARA-1),

CPM-3 Module (SNV-12),

CPM-4 Module (ACU-1000, ACU-T),

CPM-6 Module (ACU-2000 IP)

DSP-2 Module (ACU-1000, ACU-

T),

DSP-2 IP Module (ACU-2000 IP, ACU-T),

ETS-1 Software Upgrade (ETS-1),

MacNXU (ACU-2000 IP, ACU-1000, ACU-M, ACU-T, NXU-2A, NXU-2),

NXU Setup Utility (NXU-2A, NXU-2),

NXU-2 Software Upgrade (NXU-2),

NXU-2A Software Upgrade (NXU-2A),

PCNXU (ACU-2000 IP, ACU-1000, ACU-M, ACU-T, NXU-2A, NXU-2),

SCM-1 Module (ACU-2000 IP) and

SCM-2 Module (ACU-2000 IP).

Check these out at [http://](http://www.raytheon.com/businesses/ncs/civilcomms/firmware/)

www.raytheon.com/businesses/ncs/civilcomms/firmware/ Ω

ACES 2010

We will be holding ACES on October 5/6/7, 2010 so mark your calendars for the first full week of October when we will be in:

Boise, ID - Tue 10-5

Helena, MT - Wed 10-6

Spokane, WA - Thru 10-7

We will have technical seminars, new products in the exhibit area, a free lunch and lots of door prizes. So, come to learn and have a chance to win.

You will enjoy yourself at ACES meeting your colleagues and learning something new. Ω



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