

# Alster News

## Times Microwave Bundled Cable

### In This Month's Issue

- Bundles Cable From Times
- Tower/Components
- Triple Play Tester
- ACES On The West Side

Last year Times Microwave introduced the "Bundled Cable" for Wireless Carriers who feed multiple tower-top or roof-top antennas. The LMR® Bundled Cable is a spiral configuration of multiple LMR®-400 or smaller LMR® cables under a common polyethylene outer jacket.

This innovative design (see picture at right) acts as the perfect feeder cable for applications requiring multiple runs, such as 2.4 or 5.8 GHz WiFi or WiMAX antenna sites.

A unique, patented grounding fixture grounds the outer shields of each cable and a molded end cap seals the bundle to prevent moisture ingress at the break-out point. LMR® Bundled Cable reduces installation time and grounding hardware costs, while improving long term reliability. Compared to individual cable runs, LMR® Bundled Cable greatly reduces installation cost by cutting labor time and accessory requirements. LMR® Bundled Cable can be supplied as complete assemblies with full technical support and custom tools.

### Tool Kits

The LMR® bundled cable tool package contains a number of unique products designed for easy use and long life. The ST-BC-



**Times Bundled Cable  
Feed Multiple Antennas - One Run**

1 and ST-BC-2 make up a universal outer sheath removal tool set, that can be used with any of our bundled cables. If working with the BC400-7 and BC400-9, the GST-BC400-7 and GST-BC400-9 respectively, are the best value, both economically and for ease of use. The GST-400A easily accomplishes, the otherwise challenging task of removing the inner cables' outer jacket from the BC400 bundled cables series. This tool is only needed when installing ground fixtures.

For more information, please call your local Times distributor, dealer or me. We can show you how valuable this product is. Ω

Valmont - Towers, Monopoles and Components	2
Multiplier - Another New XTS Battery	2
JPS - VoIP Radio Control Through The NXU-2	2
JDSU - Triple Play Testing System For Verification	3
ReIm Wireless - Digital P-25 Mobile On Sale	3
ReIm Wireless - "GO BOX" and Incident Deployment On Sale	3
ACES Coming To The West Side In October	4

## JPS Communications 24/7 Tech Support

JPS now has a 24-hour customer support hotline. This service is available to U.S. and Canadian customers only and is designed to offer an outstanding level of service.

You can call (800) 498-3137 for immediate assistance with any technical problems, day or night. The 24-hour customer support hotline is available to JPS customers needing assistance with our voter equip-

ment, ACU products, NXU-2A, VoIP/RoIP products and to the customers who purchase the 24-hour support with system installations. This is a very valuable service, please take advantage of it.

### 800-498-3137

For more information on 24-hour Support Hotline from JPS Communications, please visit: <http://www.jps.com/247>. Ω

## Towers/Monopoles/Components

When you need to support an antenna at a new or existing site, we can help.

### Components

If you need to attach an antenna to an existing building, monopole, rooftop or tower, Valmont Structures (including Microflex in Oregon and PiRod in Indiana) provides every component you could need to keep the antenna pointed in the right way.

### What To Choose

Over the years, certain guidelines have come into play when choosing a structure to support antennas: from 20 to 80 feet, a laminated wood structure is expensive and does the job; from 60 to 120 feet, a steel monopole is a better choice; from 100 to

200 feet, a three or four legged tower is the ticket and from 200 to 1,000 feet a guyed tower is the way to go.

### Laminated Wood

Alster is fortunate to have Laminated Wood Systems for when a wood structure is needed to satisfy the need. For Monopoles we have Valmont Structures with four manufacturing plants around the US.

### Towers

For three and four legged towers we have both Microflex and PiRod. The engineering will determine whether the Microflex or PiRod design is best. Finally for guyed towers we have PiRod. You can trust Laminated and Valmont for your needs. Ω



3 Carrier Laminated Wood Structure

## Multiplier - Another XTS 3000/5000 Battery

The popularity of the Motorola XTS 3000 and 5000 portable radio has allowed Multiplier to continually improve both the capacity and function of replacement batteries.

The latest version is the M8280, 3000 milliamp, Lithium-Ion, high capacity battery. The battery has a special charger control circuit that turns off the charger, preventing battery overcharging.

### Use With Impress®

This battery is designed to be used with the Impress® chargers in both single and

multi-pocket versions. The battery can be charged by itself or attached to the XTS 3000 or 5000 portable.

The battery only weighs 4.6 ounces and Multiplier uses only the highest performing Lithium-Ion cells available.

### Higher Capacity

Motorola does not provide a higher capacity Lithium-Ion battery for the XTS portables.

For a demonstration call your local distributor, dealer or me. Ω

*Multiplier*

*Introduces Another*

*XTS-3000/5000*

*Lithium-Ion*

*Battery*

## JPS Communications NXU-2 - VoIP

I'm sure you all know that VoIP stands for Voice over Internet Protocol, which is a means of digitizing voice signals and sending them over a digital network.

The digital network can be a LAN (Local Area Network), WAN (Wide Area Network), or the Internet itself. The NXU-2 embodies this VoIP technology in a way that enables communications radios to be interconnected across the room or around the world.

The NXU-2A is the latest module offering

for the NXU-2 Network extension Unit, offering several new features.

### Free Download

PCNXU is a PC implementation of the NXU-2 and allows a computer equipped with a sound card and Ethernet connection to communicate with an NXU-2. Audio may be sent and received, and the PTT line on the remote device may be controlled.

Please call me for a demonstration of the JPS NXU-2. Ω



JPS Communications  
NXU-2 VoIP Unit

## JDSU T-Berd 8000 - Multiband Tester

JDSU/Acterna has responded to the demand for more bandwidth and IP-based triple-play services by introducing the T-BERD/MTS-8000. This product satisfies testing needs for companies who have combined data and transport technologies on the same line cards.

### SONET/SDH/Ethernet/IP

The 8000 is the first integrated SONET/SDH, Ethernet, and IP test solution that addresses Ethernet, IP, SDH/SONET, T-carrier, and PDH test functions up to 10/100/GigE and 10GigE LAN/WAN – all in an instrument that weighs only 15 pounds.

The installation and maintenance of new

Ethernet network elements, optical technologies, and IP-based services impose new test requirements such as measuring throughput, utilization, frame loss, and round-trip delay. The Transport Module performs each of these functions as well as measures BER and verifies 10 GigE LAN PHY and WAN PHY connectivity for Ethernet and IP services.

The T-BERD/MTS-8000's scalable platform provides an all-in-one tool for installing and maintaining short-haul, long-haul, FTTx, metro, CWDM, transport, data, and DWDM networks. In addition, it has set an industry standard for easy integration of existing and future technologies.

Contact me for more information. Ω



**JDSU T-Berd  
MTS-8000**

## Relm Wireless - Digital P-25 Mobile Discount

Relm Wireless, through the end of August, is offering their dealers discounts on the popular DMH5992R with 100 watt option P-25 Digital Mobile Radio.

### Trunk Mount

This mobile covers 136 to 174 MHz and has 100 watts. It comes as a trunk mount radio with 17' power and extension cable.

### 400 Channels

The radio comes with 25 groups of 16 channels for a total of 400 channels. The

programming allows the user to develop their own channel plan. An example is keeping the first four channels of each group the same frequency and codes.

### NAC/CTCSS/DTCSS

The DMH5992R uses NAC codes for P-25 Digital service and CTCSS/DCDSS for analog.

For more information or a demonstration, please contact your local Relm/BK dealer or give me a call. We would be happy to set you up with a demo. Ω

*P-25 Digital  
Mobile Radio with  
Trunk Mount  
Option On Sale*

## Relm Wireless Offers Discount On Their "GO BOX"

Relm Wireless/BK Radio introduced the GO BOX at the IWCE Show. This a simple repeater (connecting two portable radios) in a rugged, transportable case.

### GO BOX Repeater

The GO BOX kit includes an antenna, 8 foot tri-pod, solar panel (to charge the internal battery), Duplexer (5 MHz separation), wall charger, battery, and two each DPH-CMD APCO 25 VHF portable radios.

The discount is available for sales through August 31, 2007.

### Incident Command Kit

Another in the box package with a discount is the Incident Command Kit. It includes 12 each DPH-CMD APCO 25 VHF portable with clamshell batteries, belt clips and speaker-mics; 108 AA batteries; GO BOX; and programmig kit.

Call your local dealer or me for more information. Ω



**Relm Wireless  
"GO BOX"**



# ACES Coming to Salem/Issaquah/Anchorage

The Alster Communications Electronic Showcase is coming to Salem, Oregon on Tuesday, October 2, then on to Issaquah, Washington on Wednesday, October 3 and up to Anchorage, Alaska on Thursday, October 4.

Our preliminary technical seminars are:

- Interoperability**
- In-Building RF Design**
- RF DriveTesting**
- Portable Service Monitors**
- T-1 Transport**
- Packet Loss Interpretation**
- Mass Notification/Warning**

## **Exhibitors**

- Aeroflex
- Bird Technologies
- Gabriel Microwave Dishes
- JDSU/Acterna

- JPS Communications
- Multiplier Batteries
- Otto Communications
- Relm Wireless/BK Radio
- SunWest Engineering
- Survey Technologies
- Times Microwave Cable
- TXRX Systems
- Valmont Microflect
- Watson Dispatch Furniture

## **ACES October 2007**

Salem, OR - October 2

Issaquah, WA - October 3

Anchorage, AK - October 4

Mark your calendars and join us for technical seminars, exhibits, free food and door prizes. Ω



Steve Stouffer  
PO Box 12428  
Mill Creek, WA 98082

Phone: 800-365-1272  
Fax: 425-379-2574  
Email: [steve@alster.com](mailto:steve@alster.com)

**FIND US FAST**  
**WWW.ALSTER.COM**