



# Alster News

Alster Communications,  
LLC

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## Single T-1 to Single Mode Fiber

Let's say you are a county agency who read our Alster News from November and needed to move T-1 to a single mode fiber and back. What do you do?

### Call Alster

Our customer called Cliff Peck, Alster guy who covers our Eastern territory, and discussed the applications. What they came up with was a TI/EI Model 2 link pair.

### Specifications

The **Fiber Optic Link TI/EI Model 2** (backwards compatible with the Model 1) System processes incoming bipolar signals (7.2 V P-P Max) within a bandwidth of 100 KHz to 10 MHz T-1 (1.544Mbps) or (CCITT

2.048Mbps), optically transmits these signals via fiber optic cable and converts the signal to the original electrical signal with minimal gain or loss.

Output to the copper line is automatically maintained at a nominal level. Transient voltages appearing on or between the 4-wire pairs and/or power supply input are limited by thermistors, gas tubes and MOVs.



**RLH - T-1 Card**

The T-1 Model 2 card has an informative LED display for status monitoring.

### How Do You Do It?

Would you like to check out other copper to fiber link? One way is to go to this web site:

**www.fiberopticlink.com**

and click on Products, then click Fiber Optic Link Cards. You will find all sorts of information on the different cards, chassis, fiber cable, power supplies and other products necessary to complete your copper to fiber to copper link.

The other way is just to give me a call and let's talk about your application and the best way to make it work. You will receive fast help and a quick quote. Ω

## Happy New Year - 2010

It was just 10 years ago that we were partying like it was 1999. This past decade has been one of growth for Alster Communications.

This growth is only possible because you choose to buy the products we rep.

Because you continue to purchase our products, Alster has been able to add two new people this decade - Thad Parker, Central and Southwest Washington and Portland/Salem for Test Equipment, and Cliff Peck,

Eastern Washington, North Idaho and Montana.

They join Tom Kyle, Paul Merkouris, Kim Torp-Pedersen and Steve Stouffer. We all say thank you for supporting us and a very Happy New Year! Ω

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## Daniels 800 MHz MT-4E TX

The 800 MHz MT-4E transmitter (shown to the right) is a high performance, low power FM transmitter capable of P25 digital or analog operation in 12.5 KHz (narrowband) or 25 KHz (wideband) channels.

This transmitter operates in the frequency band: 799 - 869 MHz. Daniels UHF MT-4E transmitters can be used in either repeater or base station configurations. When used in base station applications they will trans-

mit clear or secure (encrypted) P25 and analog voice radio communications.

When used in repeater applications they will repeat clear or secure (encrypted) P25 and analog voice radio communications. (Secure mode operation is optional.) P25 operation is supported via a purchasable P25 firmware option.

### Analog/Digital

A modular design allows

each of the transmitter's internal modules to be individually assembled and tested. This facilitates construction, tuning and maintenance as well as troubleshooting procedures.

The transmitter can be programmed with up to 2 banks of 16 channels each. P25 transmitter options such as Frequency, CTCSS, NAC and analog / digital operation are software programmed with the Daniels Radio Service Software. Ω



**MT 4E P25  
800 MHz Transmitter**

## Aeroflex 3920 Software 1.7.7.1

The 3920, by Aeroflex, is the latest in next generation portable test for advanced professional analog and digital radio communications.

The 3920 sets a new benchmark for quality, ease of use, performance and value.

One of the main values is the free software upgrade

you receive as an owner of this technical marvel.

### 1.7.7.1 Upgrade

Go to [www.aeroflex.com](http://www.aeroflex.com) and look for the free upgrade on the 3920 page. There are 10 pages of enhancement including several performance improvements for these test: Analog FM, AM, AM Sideband; Digital

P25 Conventional, P25 Trunking; Tetra BS, BST1, DM, MS, MST1; Smartnet™ and Smartzone™ (All brands); DMR, Digital Mobile Radio; HPD® High Performance Data.

Don't forget Auto Alignment for Motorola XTS-1500, 2500 and 5000!

Call me for more info. Ω

*New Free Software from Aeroflex on the 3920. Upgrade to the 1.7.7.1 version*

## Two Versions Of The ACU-2000

One version of the ACU-2000 IP adds SIP phones, SIP PBXs and other SIP devices to the long list of communications media that can be included in an interoperability conference. The SIP capability allows radios to be operated from anywhere on the network with the ease of operating a tele-

phone; the interface even includes a speed dial. This version continues the ACU-1000 "distributed network" approach, with local interoperability links taking place within the unit itself, not relying on a network server and thus assuring continuity of local operations in the event of network failure.

The second version allows radios and other 4-wire devices to be included in a server-based network topology using SIP to initiate and manage all cross-connections. Each radio is assigned its own IP address and the interoperability takes place in the IP realm. Please call for info. Ω



**Raytheon's  
ACU2000**



## Lyncole Grounding - Education

Lyncole/XIT just announced that they will hold a two-day grounding training school in Seattle!

### February 18/19

Are you spending thousands of dollars to repair damage to sensitive electronic equipment due to lightning strikes or power surges? Industry leaders such as T-Mobile, Motorola, AT&T, PG&E, and NASA send their staff for training

at Lyncole's grounding and electrical protection classes.

Lyncole instructors have performed 1000s of grounding designs, 100s of facility surveys and dozens of grounding classes. They cover all paths of surges into a facility and how to protect the equipment.

### \$995/Per Person

The Fee for the two (2) day grounding course is \$995 / person. Sign up 30 days early for a 10% dis-

count. Full payment required prior to class start.

Student may complete the CEU paperwork or Lyncole will complete it for a course Fee of \$1,125.

The Fee includes materials, continental breakfast and lunch. Sessions are from 8:00 to 5:00.

So, mark your calendar for Thursday and Friday, February 18/19 and use the enclosed brochure to register. For info call Lyncole at 800-962-2610 or me. Ω



**XIT - Grounding  
30 Year Warranty**

## Narda Microwave-East

Narda Microwave East has been serving the Microwave/RF components and subsystems markets for over 50 years. They manufacture **Passive components** (couplers, power dividers, attenuators, terminations, phase shifters, detectors and adaptors), **ElectroMechanical** and **Pin Diode**

**Based** switching products, **Data Drivers**, Oscillators and integrated assemblies for fiber optic communications systems operating at 40 GBPS and beyond, State of the art MIC multi-function assemblies.

### Ship From Stock

Most probably their extensive inventory and

broad COTS product range will provide an off-the-shelf solution, they also excel in the development and production of custom active/passive components and multifunction assemblies, specifically tailored toward your applications.

Please contact me for their 12-page catalog and a price quotation. Ω

*Narda Microwave-East manufactures several must have RF components*

## Larsen - Continues GPS Development

Need antenna solutions for Public Safety applications? Larsen® provides a complete line of antennas for wireless communications to assist with Public Safety initiatives.

With solutions for security monitoring, communication interoperability, radio communication, data

transmission, cellular/PCS communication and GPS tracking, Larsen® offers antennas from low band all the way to 5.9 GHz for mobile, portable and in-building applications.

### Low Profile

The low profile use NMO and direct mount. VHF

antennas utilize an NMO mount and are 3.75" high and 4.5" in diameter.

450 MHz and 800 MHz low profiles are available with either an NMO or direct mount. NMO LP antennas are 1.5" tall and 4.5" in diameter while direct mount is 1.25" tall and 5.25" in diameter. Ω



**Larsen Public  
Safety Family**



## Tower Components From SitePro I/ Valmont Communications

SitePro I, recently acquired by Valmont Communications, features over 1400 wireless cell tower parts and wireless cell tower components. They have added over 50 new parts and components in the past few months.

These products include a complete line of coax cable runway components, universal wall mounts, tower stand offs, quick seal connection enclosures, coax canopy protection, weld metal kits, rooftop aluminum step over, 3M Heavy Duty Heat Shrink Tubing, Self-Retracting Lifeline, climbing harnesses by MSA and DBI, climbing harnesses by Elk River, lanyards and more for your wireless cell tower and wireless rooftop needs.

Their cell tower parts and components are divided into over 15 cate-

gories for shopping ease: BOOTS & ENTRY PANELS - COAX CABLE RUNWAY - CABLE TOOLS - COAX ACCESSORIES - COAX SUPPORT - EQUIP RACKS - GROUNDING - HARDWARE - ICE BRIDGES - MONOPOLE STEEL - ROOF TOPS - SAFETY - TAPES & CHEMICALS - TOWER STEEL - WALL MOUNTING

### ICE BRIDGE PARTS

Ice Bridge category includes 12" and 24" ice bridge kits with or without trapeze, solid bridge components, solid bridge kits, ice bridge components and much more.

SitePro I wireless roof top mounts feature non penetrating roof frames, non penetrating tripods, penetrating roof top mounts and roof top water tank mounts. Our wireless roof top accessories include but are not limited

to Aluminum cable trays, cable tray covers, roof top sleepers, roof top coax kits and more.

Call for more information.

### ACES 2010

We will be doing it again next year so mark your calendars for the first full week of October, 2010, when we will be in:

**Boise, Idaho**

**Helena, Montana**

**Spokane, Washington**

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.  $\Omega$

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