TALLEY® SHEET

Third Quarter 2011

A Quarterly Review for the Wireless Communication Professionals - www.talleycom.com

The Need for Coax RF Protection

Cell towers, wireless communications, radio, microwave repeaters, and VHF communications towers are all susceptible to lightning strikes. Although lightning is a dc pulse, the rise time to peak current can be very fast and damage to valuable communications equipment often results in costly downtime.

When lightning energy traverses a coaxial cable there is a high frequency roll-off and a slight propagation delay that occurs due to the unbalanced inductances of the shield and the center conductor and the center conductor's capacitive relationship through the dielectric to the shield. The higher frequency shield energy will arrive at the equipment first, followed by the center conductor energy spread out over time.

Since the pulse energy arrives at different times, a differential voltage occurs that must be equalized and prevented from reaching the equipment. The amount of energy reaching the equipment through the coaxial protector is known as "Throughput Energy."

DC Block, DC Pass, Ultra low PIM RF protectors and grounding products are engineered and manufactured by PolyPhaser to support surge protection communication requirements from the tower top to the central office.

Our ability to provide consistent quality and compliance with IS09001 and Mil Certifications has made PolyPhaser an industry leader.

For more information on coaxial PolyPhaser products or general inquires, please contact a Talley representative today.

PolyPhaser TRANSTECTOR

DMR Test Capability in Handheld Analyzers Offered by Anritsu Company

Digital Mobile Radio (DMR) has been designed from the ground up for users of professional mobile radio. The incorporation of a two-slot TDMA (Time Division Multiple Access) protocol results in DMR providing many advantages, including simple and effective scalability, energy efficiency, cost efficiency and a rich new set of features. DMR also has inherent benefits associated with digital radio communications, such as extended range and audio clarity.

Field engineers and technicians deploying and installing DMR networks are responsible for conducting a new series of tests based on a defined standard. A test solution that addresses the measurement requirements of DMR, while also meeting other standards-based field tests that must be made, can help field technicians and engineers perform their jobs more efficiently and effectively. The LMR Master S412E is the first instrument in its category to test emerging narrowband signals, such as DMR, as well as broadband digital public safety systems.

The introduction of two options by Anritsu Company specifically meets the DMR test needs of field engineers and technicians. Designed for the industry leading LMR Master™ S412E, the options allow users to conduct analysis of digital modulation transmissions, generate modulated signals for receiver testing, and perform coverage mapping on DMR radio networks. This includes MotoTRBO™ systems with a single, lightweight, durable test solution. These tests are in compliance with the European Telecommunications Standards Institute (ETSI) DMR Tier 2 protocol.

The modulation analyzer option enables the LMR Master S412E to conduct highly accurate measurements on the transmission characteristics of DMR networks. The option also generates DMR patterns using the vector signal generator built into the LMR Master S412E. Additional options allow generating data-modulated signals in other formats, including P25 and NXDN. By coupling the signal generator to a suitable amplifier and antenna, talk-in coverage analysis can also be done.

Continued on page 2

Anritsu

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New Complete DC Power Solution in Compact Case

Newmar's new Site Power System is a complete DC power solution that integrates quickly with batteries, loads, and monitors. Available in 12, 24, and-48 VDC configurations, the 300 watt assembly contains: power supply with temperature compensated, automatic boost/float battery charge cycle; low voltage disconnect; and programmable remote alarm contacts, all in a compact case. Versatile installation options include wall mount, 19" Rack mount, and DIN-Rail in enclosures and is rated for extreme temperature range applications (-10 to +70° C). The high operating temperature rating with convection cooling

makes the Site Power System ideal for remote site shelters and pole mount applications, as well as private network base stations and microwave sites.

The Site Power System series accepts universal AC input, 100-275 VAC, and the three model ratings are: 12 VDC at 20 amps, 24 VDC at 10 amps and -48 VDC at 6 amps. Active load sharing allows N+1 configuration for redundancy or wring in parallel for higher current capacity. The series is housed in a powder coated aluminum case measuring 12.25" W x 5.75" H x 2.45" D.

NEWMAR

Application Note:
Pole mounted cabinets or remote shelters baking in the hot summer sun and covered with ice in the winter are ideal application for the SPS, as it features an extreme temperature rating of -10 to 70° C (14 - 158° F) . Utilizing convection cooling rather than fans, the SPS provides high reliability DC power. Also monitor vital power conditions at these remote sites with Newmar's Site Power Monitor, SPM-200 which provides data logging via a web based program with alarm notification by e-mail or mobile phone.

For more information on the Site Power System, visit www.talleycom.com or contact your Talley sales expert at (800)949-7079.

Broadband Antennas Needed for 4G LTE Rollouts

Cellular 4G rollouts are happening now! Cellular Carriers are using the established 850 & 1900 MHz bands but most are adding some combination of new bands as they move into 4G offerings: the new LTE 700 MHz band, AWS bands at 1.7 & 2.1 GHz or the WiMAX/LTE band at 2.5 GHz. New modems will be equipped to handle US cellular frequencies from 694 MHz to 2.7 GHz.

Antennas that cover only the 850 & 1900 MHz bands will not provide optimal performance on the new 4G Cellular bands. Make sure your antenna has you covered! Mobile Mark broadband antennas cover 694-894 MHz as well as 1.7-2.7 GHz.

Mobile Mark's SMW-305 Multiband/Multi-cable Antenna combines multiple applications in the same antenna housing. This three-cable antenna covers GPS, WiFi and Cellular. The "cellular" cable is extremely broadbanded covering 694 – 894 MHz and 1.7 – 2.7 GHz.

Mobile Mark's RM-WLF Broadband Surface Mount Antenna also covers all of the possible cellular ranges and is well respected for its high performance and durable construction.

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DMR Test Capability in Handheld Analyzers Offered by Anritsu Company

Continued from page 1

Performing DMR coverage measurements are simple and straightforward with the option installed on the LMR Master S412E. The user simply connects a receive antenna and a GPS antenna to the hand-held analyzer. The instrument automatically stores results for RSSI, BER and Modulation Fidelity (aka "Error Vector Magnitude") which are tagged with the measurement's GPS location. Mapping data sets are automatically saved, and can be later recalled and viewed on the LMR Master S412E or exported for viewing as CSV tables or as industry-standard KML files for display in geo-visualization tools such as Google Earth™.

The LMR Master S412E significantly reduces the number of tools field technicians and engineers need, thereby saving time and money while ensuring accuracy. It is the only battery-powered DMR test solution to provide cable and transmission measurements, a high-performance spectrum and interference analyzer, and EVM and BER measurements at -115 dBm signal levels of P25/NXDN/DMR systems. Unlike other portable solutions, the LMR Master S412E offers the most extensive digital LMR test capability, including analysis of uplink and downlink control channel traffic and BER/EVM coverage mapping.

Utilizing the field-proven, compact, rugged design of the Anritsu Site Master™, the LMR Master S412E was developed with field applications in mind. The analyzer has a field-friendly battery that can be changed in seconds to extend measurement time. A standard 8.4" full-color TFT touchscreen display is viewable in direct sunlight and at wide viewing angles. For more information on Anritsu products, contact your Talley sales expert at (800) 949-7079 or visit us at www.talleycom.com.

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Through every wave of wireless evolution, CommScope has been at the forefront, helping businesses adapt and grow, keep up with the latest technologies—and stay a step ahead of the competition.

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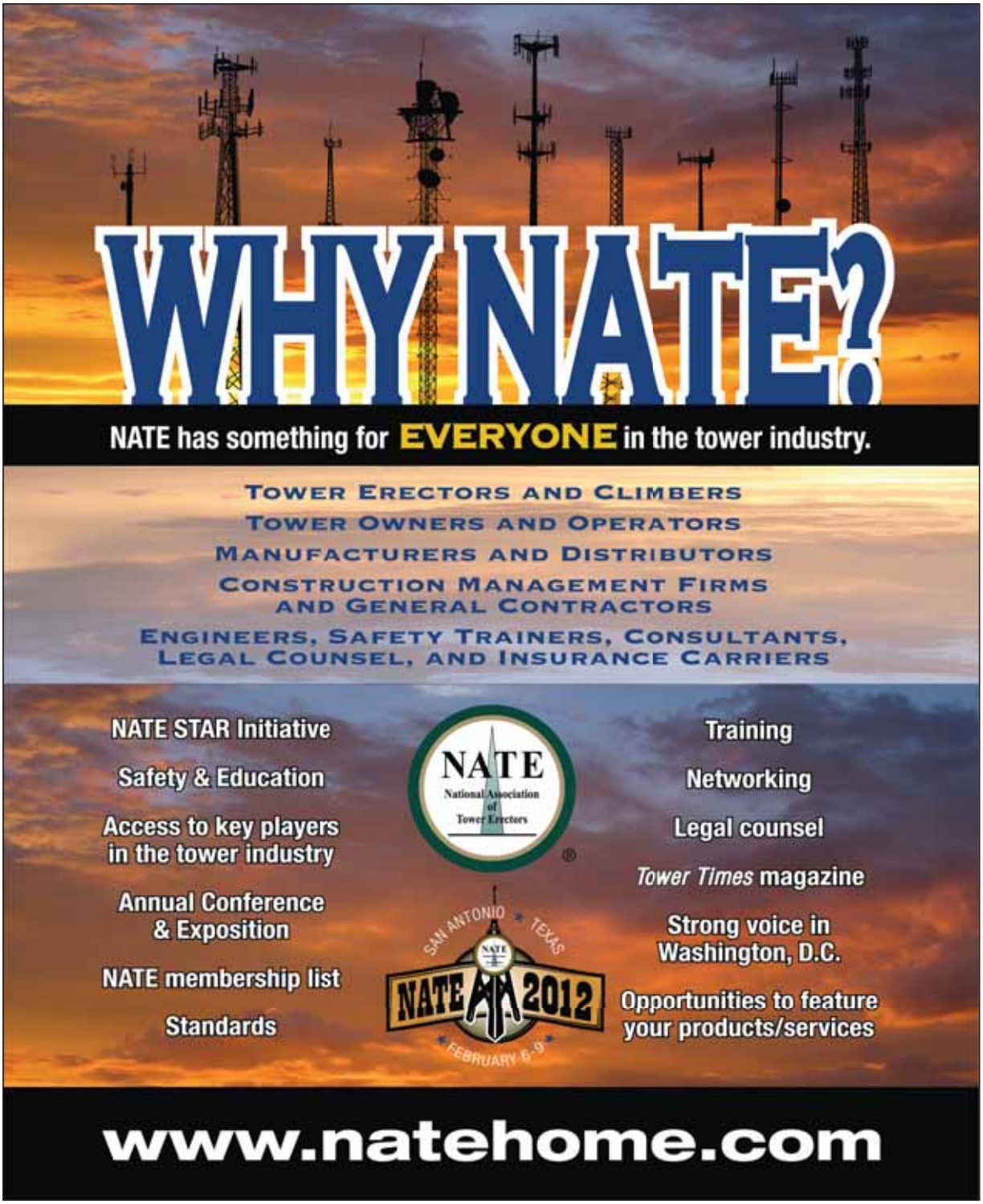

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The NEW LP-STRL Series from Times Microwave Systems

Times Microwave Systems new LP-STRL series is part of its Times-Protect™ line of innovative RF lightning and surge protection products. The LP-STRL series is an exceptional DC blocked design with outstanding surge performance designed for the new LTE (Long Term Evolution) and Public Safety requirements in the 680 MHz to 2200 MHz range. With its excellent PIM performance, low insertion loss and low return loss over the entire operating band and superior surge performance, the Times-Protect™ LP-STRL product family is unequaled. Its fully weatherized construction meeting IP67 standard allows for outdoor as well as indoor installation. The LP-STRL series has high power handling capability and will withstand multiple strikes. Among the main features of the new LP-STRL series of RF lightning protection products are:

- Excellent passive intermodulation (PIM) performance
- Outstanding IL/RL characteristics
- DC blocked for superior surge performance
- High surge current rating
- Broadband multi-strike design
- High power rating over the entire frequency band
- Fully weatherized housing to IP67 standard

Times-Protect™ LP-STRL surge arrestors available:

LP-STRL-NFF *(N female on surge & protected sides)*

LP-STRL-NMP *(N male on protected side & N female on surge side)*

LP-STRL-NMS *(N male on surge side & N female on protected side)*

LP-STRL-DFF *(DIN female on surge & protected sides)*

LP-STRL-DMP *(DIN male on protected side & DIN female on surge side)*

LP-STRL -DMS *(DIN male on surge side & DIN female on protected side)*

For more information on Times Microwave Systems products, contact your Talley sales expert at (800) 949-7079 or visit us at www.talleycom.com.

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PCTEL's Carrier Grade Omnidirectional Base Station Antennas

A smart grid, an updated electrical grid that includes wireless technology and smart meters, is needed for energy efficiency and security. In addition to reducing pollution and power outages, smart grids utilize real-time communication to optimize the delivery and storage of energy and prevent loss. To accomplish these goals, the electrical industry must modernize by using current technology that facilitates communication on the electrical grid.

Two-way communication is a key to making the grid smarter. The smart grid refers to a system that can communicate data back and forth between a utility company and a customer, or between the utility company and a point on the grid or another utility company. Wireless technology and antennas that utilize Radio Frequency (RF) signals are often best suited to facilitate this grid communication. Supervisory Control and Data Acquisition (SCADA) using two-way communication provides faster alerts about problems and better responses to them. In addition, improving communication on the grid cuts labor costs by reducing the need for manual monitoring and repairs.

Continue on page 11

CommScope's Family of LNX Base Station Antennas is Designed with Low PIM in Mind

COMMSCOPE®

CommScope offers a new line of high performance, wideband base station antennas that feature 65° azimuth beamwidth models and offer an extended operating bandwidth of 698-896 MHz. This covers the entire 700 MHz band and 800 MHz cellular frequency band in North America, allowing carriers the flexibility to use one antenna for multiple spectrum allocations.

The LNX family of antennas provides excellent solutions for operators implementing GSM, CDMA, and LTE technology in the 700/800 MHz spectrums. Featuring excellent upper sidelobe pattern suppression and high front-to-back ratios, these antennas assist in mitigating interference from nearby sites and co-location installations.

The LNX antenna family includes a variety of both fixed and variable electrical tilt arrays. Each variable tilt model is fully compatible with the Andrew Teletilt® RET system and can be ordered with factory installed RET actuators preset to either AISG 1.1 or AISG 2.0 protocol. LNX antennas are designed for low PIM and manufactured in a factory specifically designed with industry leading dynamic PIM testing criteria.

The LNX family from CommScope - the evolution continues. To view antenna specifications for models, LNX-6514DS-VTM and LNX-6515DS-VTM, please visit www.Talleycom.com.

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Precision 7-16 DIN Adapters with Stainless Steel Coupling Nuts Preferred for Harsh Environments and High Torque Applications

ITesting for passive intermodulation (PIM) of wireless base station sites generally includes the use of 7-16 DIN adapters. To assure accurate measurements, the adapters should be attached and tightened using a torque wrench. Traditional 7-16 DIN adapters are constructed of Silver plated machined brass bodies. Although they can be used for PIM testing, after multiple uses the interfaces will wear and the plating will begin to flake off and the accuracy of the testing may be in jeopardy.

RF Industries has introduced a line of rugged 7-16 DIN adapters under the RF Precision Products brand featuring White Bronze (tri-metal) plating that leaves the interface free of metal particles, ensuring the best results. White Bronze tri-metal plated bodies offer tarnish free service, superior electrical performance and low PIM. White Bronze plating also offers a non-magnetic solution while retaining high conductivity in the conductor paths. These low loss, low VSWR, "rugged" adapters are designed to be used with portable antenna and cable analyzers. Anritsu's Site MasterTM, Summitek's SITM series and Boonton's PIM testers are examples where high grade DIN adapters are used. An additional feature is Stainless Steel coupling nuts with large hex flats for easy mating and un-mating. Engineered for long life in field applications, they are also suitable for lab environments. Test charts included with purchase.

P2RFD-1670-SS: 7-16 DIN Male to N Male
P2RFD-1671-SS: 7-16 DIN Male to N Female
P2RFD-1672-SS: 7-16 DIN Female to N Male

Call (800) 949-7079 to speak with a Talley representative about RF Industries Products.

Pulse/Larsen Direct Mount LTE Antenna

Pulse/Larsen is proud to introduce the SLPT (Shadow Low Profile Transit) product line for Public Safety, WLAN, LTE and 3G/4G applications. These rugged, aesthetically pleasing antennas provide a smaller, slimmer option to our current LPT product line without sacrificing mechanical or electrical performance.

SLPT antennas were designed to perform over the high-percentage bandwidth applications prevalent in the market today. As a new product line, these antennas were created specifically to serve emerging applications such as 700 MHz Public Safety, LTE, Smart Grid and WLAN. These value-oriented antennas provide a cost-effective, high-performance solution for LTE and 802.11n MIMO applications as well. When combined with our NMOHFGPS antennas, these antennas provide an efficient GPS combination solution.

Features
- NMO mount models
- Multiple and dual frequency products available
- Shorter, slimmer profile without sacrificing mechanical performance
- IP-67 rating when installed to compliant surface
- RoHS Compliant Product

Applications
- Public Safety & LTE
- 802.11n Applications
- M2M and Smart Metering

Contact your Talley representative at (800)949-7079 about Pulse / Larsen products.

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HELIAX® FXL Smoothwall Cable from CommScope

HELIAX® FXL Smoothwall cable from CommScope is the strategic choice for optimized performance and reliability. Across the industry, wireless operators are re-aligning their network strategies in order to improve their operating margins. At the same time, they are upgrading their networks to support more sophisticated delivery of broadband data. In this new paradigm, every purchase is critical.

RF transmission line cable has taken on new significance as a growing source of CAPEX savings. As a key component of the RF signal path, its impact on reliability and OPEX costs is even more important. As a result, operators are looking at RF transmission line cable in a new light, and cable manufacturers, in turn, are giving them something new to look at. From a performance and cost standpoint, CommScope offers the best choice in RF transmission line cable.

HELIAX® FXL Smoothwall cable (part numbers FXL-540, FXL-780, FXL-1480 and FXL-1873), part of our Andrew Solutions portfolio, enables you to maximize electrical and mechanical performance and reduce tower loading. Installed in some of the most extreme conditions, HELIAX® FXL delivers long-term performance and reliability that are unparalleled in the industry.

Compared to traditional corrugated cables, FXL offers lower attenuation, excellent VSWR, superior crush strength, lighter weight, and more flexibility. You also realize greater savings with aluminum's lower, more stable raw material cost. HELIAX® FXL offers a full range of industry standard cable sizes and ensures swift, easy installation and site deployments. After more than a decade in the field, under the most unforgiving conditions, HELIAX® FXL is a proven performer.

For optimized system performance and lower network deployment costs, HELIAX® FXL Smoothwall from CommScope is the uncompromising choice. Put the industry's leading cable to work for your bottom line today.

For more information on the Andrew Solutions portfolio of HELIAX® FXL cable contact your Talley representative at (800) 949-7079 or visit us at www.talleycom.com.

COMMSCOPE®

Broadband Antennas Needed for 4G LTE Rollouts

Continued from page 2

Mag-mount versions are available for both antenna styles. All of these antennas work on any Cellular frequency used by any Cellular Carrier including the established 850 & 1900 MHz bands, LTE 700 MHz, AWS bands at 1.7 & 2.1 GHz, or WiMAX/LTE at 2.5-2.7 GHz.

4G speeds are not just for consumers. There will be plenty of commercial applications that will require rugged, dependable surface mount antennas for optimal high-speed data transfer. As Carriers roll out operations on new bands, these broadband antennas will be invaluable! Contact your Talley respresentative to find out more about Mobile Mark products.

TALLEY TRIVIA ?

In terms of the Fall Protection Code, what does the "S" in ANSI stand for?

A. Supply B. Standards C. Safety D. Society

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The first 20 correct answers will receive a free Talley gift. See the next issue of the Talley Sheet for the answer to the above question. Please submit your answer via e-mail to sales@talleycom.com. Answer to Q2-2011 question is C: IEEE 802.16.

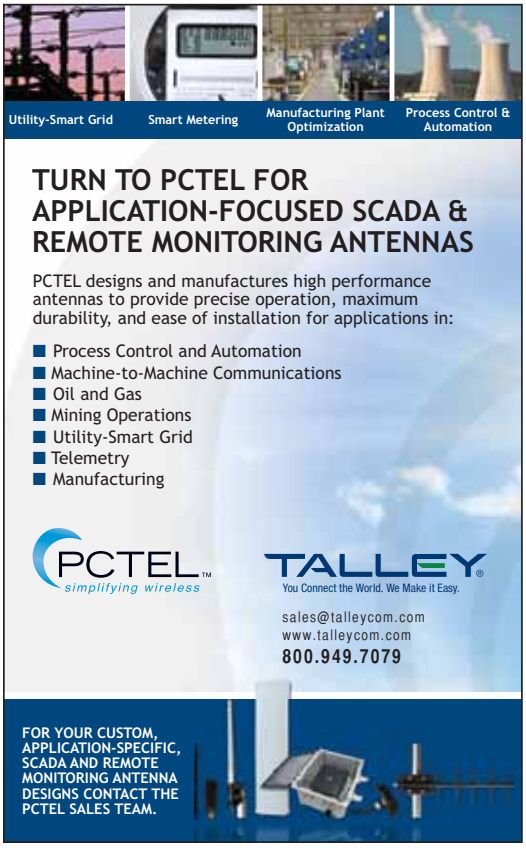
Solutions for Next Generation Deployments

Talley is proud to introduce MECA Electronics' (Microwave Electronic Components of America) customized Rack/Integrated Assemblies designed for neutral hosts DAS Point of Interface (POI) applications. Combiner shelves are critical for mixing multiple sectors/hosts and reducing power to adequate signal levels needed to feed the fiber head-end. Our experienced applications and mechanical engineers can take your initial concepts and provide a quote and preliminary drawing for your review based on your projects' specific bands of interest, power requirements and sectorization. Racks can also be designed to accommodate future expansion in the field. Customized assemblies can be delivered in three to four weeks after receipt of order!

All assemblies are MANUFACTURED, ASSEMBLED and TESTED in the USA for superior performance, quality and come with a 36 month warranty. Talley supplies rack mounted combiner shelves to all of the major carriers and tier one integrators because the quality and consistency of MECA products are recognized as a primary source for passive components.

CELEBRATING 50 YEARS! Since 1961, MECA (Microwave Electronics Components of America) has designed and manufactured an extensive line of RF/Microwave components with industry leading performance including fixed attenuators, directional and hybrid couplers, isolators/circulators, power dividers/combiners, rf loads/terminations, dc blocks, bias tees, integrated assemblies, adapters and cables.

MECA serves all areas of the RF and Microwave industries including world class network providers and supporting supply chain infrastructure, and has long been the "backbone" of high performance wired and air-interfaced networks such as in-building applications, satellite communications, radar, radio communications, telemetry applications, mobile radio, aviation and air traffic communications.

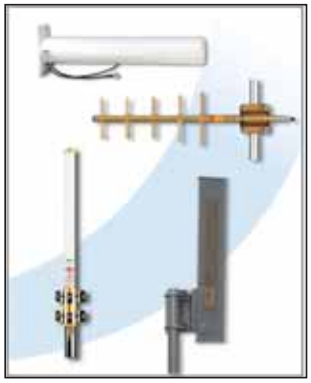


Extensive Array of Base Station Antenna Solutions from Laird Technologies

Laird Technologies offers an extensive array of base station antennas that provide high-performance and long-lasting value to heavy-duty, mission critical solutions. Responding to the ever-increasing variety of frequencies and applications, the company offers omnidirectional, sector, and Yagi antennas in VHF, UHF, 700 MHz, Cell/PCS dual-band and GSM/UMTS tri-band variations.

Laird Technologies' omnidirectional antennas provide unlicensed and cellular transmission options. Offering multiple frequency ranges with gain coverage options and custom tuning available, these antennas feature a special fiberglass UV treated radome that resists sun damage and is rated to withstand high wind velocities.

The sector antennas include maximum spectral efficiency which allows reutilization of channels in the next over-adjacent sector antenna. There is reduced crosstalk and reduced interference, improved S/N ratio, and improved C/I ratio. These antennas have the most uniform energy distribution across the entire coverage area with reduced system overhead compensating for nulls and hot spots in the coverage area, which offer the highest quality of service (QoS) and subscriber satisfaction.



Laird technologies directional Yagi antennas feature either the 360° fully welded Gold Anodized models or value leader Silver Series. Internal matching design will not ice up, detune, or corrode. Broad bandwidth allows the gain performance to be more consistent through the frequency range, with VHF custom tuning available.

All of these antennas typically feature maximum null fill to ensure client antennas see consistent gain close to the tower and extending out towards the horizon. They easily meet ETSI's most stringent compliance standards while still being competitively priced. From temporary installations to the harshest outdoor environments, Laird Technologies' base station antennas are the premier choice when long-range wireless transmissions must get through.

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When you need a radio base station, choose the power supply with the highest reliability in the industry.

ICT has delivered proven reliability for 25 years with its Comm Series DC power supplies, and continues to add the latest models of radios to its line of Base Station Covers and Complete Stations. Radio covers are custom matched to each radio model and matching ICT power supply, and the Complete Station models combine the cover, power supply, and in some cases built-in speaker such as the new CS120-20A/HAR1 Complete Station for Harris M5300/M7300 radios.

CS120-20A/HAR1 Complete Station with built-in speaker

ICT also provides useful tools to help you find the right solution for your needs. Go to www.ict-power.com and click on Find Radio Cover under Tools and Resources to download our Base Station Matrix. This tool lists all major radio models from Motorola, Kenwood, Icom, Vertex Standard and others, and recommends the right-sized power supply, cover, or complete station for that radio model. ICT can also design a solution for you if we don't already have your radio model shown.

Experience reliable power from ICT, and learn to live with peace of mind. For further information or how to purchase ICT products, be sure to contact your Talley sales representative at (800)949-7079 or visit us at www.talleycom.com

Where Do You Wear Your Talley Gear?

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BIRD® Introduces NEW Digital Conduction-Cooled Dry Terminations

This family is ideally suited to both primary applications for loads: in Dummy Load applications, where the load must terminate the full generated power, and in Reject Load applications, where power must be dissipated continuously on the reject port of a combining system.

- Rugged Reliability provides years of trouble free use
- Handles >13 dB Peak to Average power ratio
- 1.25:1 Maximum VSWR
- Fully shielded against the production of extraneous radiation
- Compact size, lightweight
- Easy to use

YOU'RE HEARD, LOUD AND CLEAR.

PCTEL's Carrier Grade Omnidirectional Base Station Antennas

Continued from page 6

The PCTEL BOA series provides high performance omnidirectional antennas at VHF, 220MHz, UHF, and 900MHz frequencies with various gain options. The rugged and robust design makes these antennas ideal for deployment in harsh environments where long term reliability and durability cannot be compromised. This platform is ideal for industrial wireless applications in the SCADA, Utility Smart Grid, Positive Train Control, Remote Monitoring, Precision Agriculture, and Military/Defense markets. For more information on PCTEL products, please contact your Talley experts at (800) 949-7079 or visit us at www.talleycom.com.

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September 18-20	RSSI	Minneapolis, MN
October 20	APCO/CPRA	Los Angeles, CA
October 24-27	4G World 2011	Chicago, IL

Talley will hit the road for more than 20 trade shows in 2011. For an updated list of trade shows that Talley will be exhibiting in, simply log on to our website at www.talleycom.com and click on the "News & Events" tab.

If we are able to provide free or discounted show passes they will be posted here as well. We hope to be in a city near you soon!