

Broadband Properties Directory Of Wireless Companies

By Broadband Properties Staff

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What they do: Airpath Wireless is a global leader in the Wi-Fi Hotspot Industry. WiBOSS™, Airpath's carrier-grade Wi-Fi Public Access Management Platform, enables telecom, cable, mobile, and other service providers to capitalize on the booming Wi-Fi industry while maintaining complete branding control. WiBOSS™ simplifies deployment, operation, and management of Hotspots with powerful features such as automated end-user AAA, e-commerce, billing and provisioning. WiBOSS™ also allows providers to manage their entire Hotspot network from a centralized web-interface and interoperates with the leading Hotspot hardware manufacturers. WiBOSS™ even provides support for both the "pay-per-use" and "free wireless" business models. The fully integrated Airpath Roaming Engine gives providers Instant Wi-Fi footprint and user-base through the Airpath Provider Alliance. With 450 providers operating nearly 2000 Hotspots (and counting) in over 12 countries, the Airpath Provider Alliance is the global standard for ubiquitous Wi-Fi roaming.

MDU/MTU Importance: Airpath's WiBOSS™ is the back-office management platform of choice for several providers operating successfully in the MDU/MTU market. WiBOSS™ is a flexible solution that is interoperable with practically any access gateway solution that is RADIUS AAA compliant. The number of end-users that WiBOSS™ is capable of managing is limited only by the access gateways in place. This makes WiBOSS™ scalable enough to accommodate a rollout of any size. WiBOSS™ is also centrally located on Airpath's network operating center, eliminating the need for providers to have local

servers. Providers are able to manage every aspect of their hotspots via WiBOSS™'s web-based interface. All these features make WiBOSS™ an ideal solution for the market by reducing overhead, implementation cost, and deployment time. Finally, Airpath's future role in the market is to create ubiquity by allowing end-users to roam to hotspot locations out of their home network via the Airpath Provider Alliance.

Alcatel

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Contact: Scott D Nelson, Sr. Manager,
Marketing and Business Development



What they do: The MDR-8000 is Alcatel's latest generation of digital microwave radio for long haul, point to point wireless communications. It offers customers the widest array of capacities – from 2 DS1 to OC-3, including 10/100baseT Ethernet – and the most radio frequency options – covering licensed and unlicensed bands from 2 GHz to 11 GHz. The new MDR-8000 CommPak offers a reduced size package for non-standby radio configurations as well as solutions for both indoor and outdoor installations. Alcatel's 9600 USY and 9400 AWY radios are optimal for short haul links with capacities including multiple DS1s, DS3s, OC3 and 10/100baseT. All of these radios offer compact mechanical dimensions that allow placement in cramped spaces without sacrificing system performance and availability. These scalable and readily deployable wireless products provide reliable wireless backbone communications for networks.

MDU/MTU Importance: Alcatel offers end-to-

end solutions for broadband access to MTU/MDU applications. Our complete line of wireless transmission systems provide broadband pipes directly to any property location, which can then be distributed throughout the tenant complex with Alcatel's industry-leading digital subscriber line technology as well as emerging WiMAX standard equipment. At the core of the network, we offer unmatched solutions for broadband traffic routing as well as service management functions for customer authorization and billing. Bringing all this technology under one umbrella also requires expertise that starts with planning, continues through implementation, and extends into the future with maintenance operations and technical support. Alcatel brings this all to you to ensure your success.

Alvarion Inc.

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What they do: With over 1.5 million units deployed in 130 countries, Alvarion is the worldwide leader in wireless broadband providing systems to carriers, ISPs and private network operators. Featuring the industry's most extensive portfolio and covering the full range of frequency bands, the company's products enable the delivery of business and residential broadband access, corporate VPNs, mobile base station feeding, hotspot coverage extension, community interconnection, and public safety communications. Alvarion works with several leading OEM providers and through over 200 local partners to support its diverse customer base in solving their last mile connection challenges wherever located.

As an industry pioneer, Alvarion has been driving and delivering wireless broadband innovations for 10 years from core technology developments to creating and promoting industry standards. Most recently offering OFDM-based systems and taking leading roles in the IEEE and HiperMAN standards, the company's prominent work in the WiMAX Forum™ is focused on leading the wireless broadband market to widespread adoption of standards-based products.

MDU/MTU Importance: Alvarion, a principal member of the WiMAX Forum, is the world's leading supplier of wireless broadband solutions for major carriers, service providers, and private network operators. Alvarion also provides a host of solutions ideal for the MDU/MTU market, especially as property owners and managers seek to economically upgrade capacity. Alvarion's advanced solutions enable simple installation of high bandwidth non-line-of-sight connectivity of multiple buildings from a single location. For example, Alvarion's BreezeACCESS VL product can connect, from a single inconspicuous campus location, each building with up to 24Mbps with the confidence of AES-level security. Such a solution for a ten building property would cost only about \$15,000 - a fraction of the high cost of provisioning monthly high capacity leased lines to each building. Alvarion also offers long-range solutions to bridge facilities up to 30 miles apart, which is ideal to connect remote properties. For more information, contact Alvarion at north.america-sales@alvarion.com.

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Nancy True, Product Analyst

What they do: Coral™ Cable – Better than Braid! System designers, engineers, and installers can lower costs while significantly improving system performance with Coral Braid Replacement Cable from Andrew Corporation. Built on industry-leading HELIAX® coaxial cable technology, Coral cable is ideal for any indoor or outdoor application where braided cable is used. Coral cable uses a

new ultra-flexible corrugation technology that offers excellent electrical performance, stability, and is a rugged cable that provides unchanged performance after repeat bends. There is less system noise with Coral.

MDU/MTU Importance: Coral cable protects against electromagnetic interference and radio frequency interference (EMI and RFI), which is important in today's MDU/MTU applications. Coral has no openings in the solid outer conductor – it's simply superior to wires and tape.

Aperto Networks
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Contact: Alan Menezes, Vice President, Marketing

What they do: Aperto Networks is a leading provider of multiservice broadband wireless access systems for global markets. The company was founded to provide a breakthrough solution to one of today's critical network bottlenecks - last-mile broadband access. The PacketWave system provides a family of base stations, subscriber units, and associated radios and antennas in 2.5, 3.5 and 5 GHz frequency bands for global point-to-point and point-to-multipoint deployments. Aperto systems have been deployed by service providers in 45 countries, meeting their needs for ease of installation, IP-rich network functionality and cost effectiveness, while enabling rapid provisioning and interference resilient operation in dense urban to suburban locations. The company is a founder and leading contributor to IEEE 802.16a/d as well as to ETSI-BRAN standards, and a board member of the WiMAX Forum. For more information on Aperto Networks, go to www.apertonet.com.

MDU/MTU Importance: Aperto Network's PacketWave system consists of a base station that communicates with multiple subscriber units. In addition, PacketWave products support ServiceQR which enables carrier-class multiservice Quality of Service (QoS), per-flow service and bandwidth management across the wireless (air) interface.

For the MDU/MTU market, you can deploy a single subscriber unit on the building and support up to 16 different flows from the single unit. The advantage with this solution is that a single subscriber unit can support up to 16 different customers within the same building each with a different SLA.

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What they do: Axcera is a premier provider of carrier-class equipment and systems for broadband wireless access/MMDS. Axcera also offers an array of integration services for the deployment of broadband wireless access and MMDS systems.

With more than 20 years experience in broadband wireless access technology, Axcera enables license holders to deploy flexible, cost-effective voice and data solutions for the last mile. Axcera's innovative product and service offerings include carrier-class RF products and integrated broadband wireless access solutions in the 1.9-3.4GHz frequency bands. Axcera's Axiy3G Broadband, powered by IPWireless, enables license holders to deploy flexible, portable, non-line-of-sight two-way systems today!

MDU/MTU Importance: Axcera's RF system design and manufacturing capabilities enable us to provide consulting, network planning, engineering, project management, installation, and commissioning services to deliver a fully operational BWA system. Additionally, to ensure a timely and trouble-free deployment each system undergoes a staging and test plan, including a complete functional and performance closed loop testing of Access & RF platforms to system level specifications.



Axxcelera Broadband Wireless

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What they do: Axxcelera Broadband is the wireless networking solutions company that is developing leading edge technologies for deployment of broadband wireless communications over the Internet. Axxcelera solutions offer point-to-multipoint (PMP) and point-to-point (PTP) fixed wireless backhaul applications supporting the UNII band, 5.8 GHz ISM, and 802.16 based products providing cost effective solutions for residential and industrial markets with payloads from fractional T1/E1 to OC3. Axxcelera is your wireless solutions provider.

MDU/MTU Importance: Axxcelera's AB-Access(tm) fixed wireless solution addresses the building-to-building distribution problem of serving MDU and MTU campuses. For MDUs, a service company rather than the property owner often owns the phone and cable hard lines making pre-wired facilities unavailable for DSL or cable modem distribution. For MTUs, leasing T1/E1 services between buildings is expensive and also requires additional devices to bridge between WAN and LAN technologies.

AB-Access™ presents a LAN interface and then distributes the bandwidth over WAN distances. In addition, AB-Access does what no other fixed wireless solution in the 5-6GHz spectrum can; it provides flexibility: point-to-point and point-to-multipoint; Ethernet bridging and IP routing; ATM and Ethernet; and operation in the Mid and High UNII bands ... all at a low cost and the stability of a product commercially available since 1999 and proven with over 60,000 units shipped world-wide

2004
Wireless
Directory

Cable AML, Inc.

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What they do: Cable AML offers wireless HFC links of 54 - 870MHz and 10 - 42MHz for interactive analog and digital video plus Internet. Cable AML also offers long and short range 54 - 550MHz analog and digital links. Cable AML's digital headend modules offer cost effective transition to All Digital. Cable AML's PtP / MMDS / LMDS / MVDS open architecture systems have been operating in more than 35 countries for over twelve years. Cable AML: manufacturer and integrator to provide the system functionality and capacity you want.

MDU/MTU Importance: Cable AML's products are especially effective at providing cost-effective wireless access to entertainment TV and two-way data services the MDU/MTU marketplace.

Conifer

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Contact: Joseph Cunningham, Vice President, Sales & Business Development
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What they do: Conifer is a leading global provider of subscriber products for broadband wireless systems. Conifer delivers point-to-point and point-to-multipoint solutions, including active and passive subscriber equipment for both licensed and un-licensed service providers. Conifer provides solutions that support video, voice, and data. Conifer's product portfolio spans the frequency spectrum of 1.7 to over 6 GHz. We have supplied over one million subscriber equipment packages that have been installed in over 60 countries worldwide.

MDU/MTU Importance: Conifer Wireless is a subsidiary of Wireless Acquisition LLC. They manufacture RF components used by sys-

tems integrators for MMDS, ITFS and WiFi (2.4 GHz) systems that serve the MDU/MTU market. Products include transmitters, receivers, antennas and connecting hardware.

EDX Wireless LLC

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What they do: Unmatched Accuracy - Unmatched Flexibility. EDX offers comprehensive wireless network planning tools that use the most advanced propagation prediction models to perform coverage/interference studies, point-to-multipoint studies, and detailed link analyses. You'll find more study types with EDX tools, and specialized modules are available for complete network design and 3D microcell ray-tracing. Appropriate for Wi-Fi, WiMAX, MMDS, LMDS, PCS/cellular, paging, LMR/SMR, broadcast and other wireless systems. Products include EDX SignalPro™, SIGNAL™, Fixed Broadband Module, Cellular/PCS Module, 3G UMTS Module, and Microcell/Indoor Module.

MDU/MTU Importance: Wireless networks are no longer single technology deployments. Seamless connectivity means multiple technologies, multiple frequency bands and multiple hardware platforms in [varied] environments. EDX is the only supplier that can provide accurate engineering for tomorrow's complex wireless networks.

EDX's advanced planning, design, and optimization tools accelerate any wireless network design from mobile to fixed broadband. Our approach creates innovations that simplify, expand and optimize wireless communications. With EDX you can reduce engineering time, leverage emerging technologies, and put future advancements within reach.

We've built upon a sterling, 18-year, reputation in wireless technology, radio frequency engineering, and broadband systems to deliver the most effective, accurate, scalable and versatile tools available. Powered by the expertise of EDX you can have access to unparalleled resources and superior innovations.

EMCEE

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What they do: EMCEE is a global supplier of communications products, systems, equipment, and services. Major markets are wireless communications sectors which include MMDS, ITFS, broadcast, private communications networks, common carrier, and government.

MDU/MTU Importance: EMCEE Communications is a subsidiary of Wireless Acquisition LLC. They manufacture RF components used by systems integrators for MMDS, ITFS and WiFi (2.4 GHz) systems that serve the MDU/MTU market. Products include transmitters, receivers, antennas and connecting hardware.

fSONA Communications Corporation

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What they do: fSONA Communications is an innovative provider of next generation Free Space Optics (FSO) solutions that utilize a flexible point-to-point architecture and protocol transparent design. Founded in 1997 with a goal to develop best-of-breed, low-cost, eye-safe, optical transmission products for the broadband access market, fSONA has created the toughest, most powerful free space optics systems ever brought to market - the SONAbeam™ family.

The SONAbeam™ series of free space optical (FSO) networking products use an unlicensed, wireless technology operating at speeds up to 2.5 Gbps and distances up to 5km. SONAbeam™ avoids the cost of digging to lay fiber, licensing for radio frequencies, is immune to interference, and is extremely

secure. fSONA's next generation free-space optical (FSO) products offer fiber-like data rates and availability with the true simplicity and ease of use of a wireless solution.

MDU/MTU Importance: The SONAbeam™ series of products is an ideal solution to provide high-capacity connections to multi-tenant dwellings for the purpose of delivering broadband services to both residential and corporate customers. Because SONAbeam technology bypasses the hurdles associated with laying fiber, connections can be made in a matter of weeks rather than months and are up to ten times less expensive to deploy. SONAbeam's optical wireless technology offers much higher capacity connections than RF based wireless technologies that are more suitable for sharing amongst various tenants.

Motorola Canopy

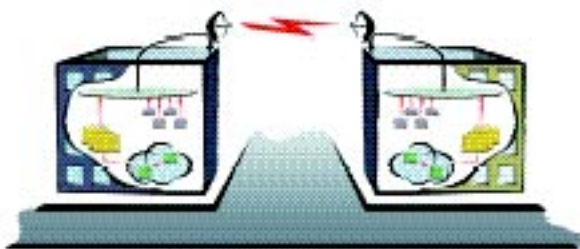
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Contact: Sue Moore

What they do: Motorola Canopy™ wireless broadband is an always-on, high-speed broadband solution for cost-effective connectivity to private networks, such as governments or enterprises and to Internet service providers and carriers. The Canopy system's superior performance promises one of the lowest total costs of ownership and can significantly reduce a provider's start-up, maintenance and lease line costs. The Canopy fixed point-to-point and point-to-multipoint system configurations are being deployed in 75 countries around the world. Motorola, Inc. (NYSE:MOT) is a global leader in providing integrated communications and embedded electronic solutions.

Connect your Buildings ... for Less



Radiolan BridgeLINK Wireless Ethernet Bridges
connect distant Ethernet networks together
into one seamless, robust network.

With BridgeLINK, you get:

- True LAN speed
- Range up to 32 miles
- Robust management interface
- Point-and-Play Installation
- Better ROI than T1 or trenching



Visit our **Online ROI Calculator** & see for yourself.

866-272-3465
www.radiolan.com



Radiolan

MDU/MTU Importance: After 10 years of extensive research and development efforts, Motorola introduced the Canopy™ platform as a means to unleash the restrictive world of broadband services and offer a product that truly delivered on its promise. The Canopy system delivers a low-cost, simple to deploy, high-speed wireless broadband access network that is secure (offers both DES and AES encryption), scalable, reliable and resistant to interference.

The Canopy system delivers broadband data rates that rival today's DSL and cable networks and is an excellent system for serving enterprises, carriers and service providers with point-to-point and point-to-multipoint systems. The system's performance makes high demand technologies -- voice over Internet protocol, video services, security surveillance and broadband Internet access -- more efficient and cost-effective.

While the business benefits of broadband communications and Internet access are easy to see, gaining access to the service not to mention paying the expensive interconnect fees is not. Traditional networks have often times been costly, complex, required vast amounts of time and were often times unable to reach particular areas. The Canopy system removes all of those barriers. In addition, because the Canopy solution is wireless, start-up costs are more affordable than virtually any other connectivity options. The Canopy system further reduces monthly recurring cable or T1 costs because there is no need to go through phone or cable networks.

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What they do: Orthogon's OS-Gemini Wireless Ethernet Bridge is a carrier-grade point-to-point broadband wireless platform that connects disparate networks, extends broadband connectivity to remote locations, and provides a cost-effective backhaul solution for ISPs. It delivers up to 33.6 Mbps of throughput simultaneously up and downstream and maintains exceptional link availability, up to 99.9999%, equivalent to

or better than carrier-class wireline systems. The platform is FCC certified, operates in the unlicensed 5.8GHz band and is easy to install, configure and manage.

The OS-Gemini product line consists of two platforms, the OS-Gemini I (Integrated) with internal antennae, and the OS-Gemini C (Connectorized) with high gain external antennae to deliver high performance in the most extreme environments. The products delivers payback in less than 12 months to enterprise customers, including corporations, municipalities, universities and hospitals seeking to connect disparate networks; and to wireless ISPs seeking to backhaul data or cellular traffic.

MDU/MTU Importance: The OS-Gemini delivers highly reliable point-to-point wireless connections to MDU/MTUs in metro areas and to even the most remote locations. Well suited to meeting the needs of service providers, building proprietors and their tenants in multi-unit properties, OS-Gemini offers high performance, security and 99.999% availability that today's tech-savvy MTU/MDU residents demand.

Building Providers can greatly decrease deployment cycle times with the OS-Gemini -- service can be extended to a building in hours as opposed to months for leased line connectivity. The OS-Gemini pays for itself in 12 months, with no recurring monthly costs and provides at least 3 times the capacity (based on average T1 cost/capacity); this enables the building provider to effectively compete against larger, incumbent service providers by offering a superior service at a lower price point.

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What they do: P-Com, Inc. develops, manufactures, and markets Spread Spectrum, Point-to-Point and Point-to-Multipoint digital microwave radios in the frequency bands of

2.4 GHz to 38 GHz and in capacities from 64 Kbps to 3 Gbps, wireless access systems to the worldwide telecommunications market. P-Com's AirPro Gold and the SpeedLan product lines are broadband wireless access systems designed to satisfy the high-speed, integrated network requirements of Internet access associated with Business to Business and E-Commerce business processes. P-Com's Tel-Link Encore product line is often used by cellular and personal communications service (PCS) providers to connect cell sites and to provide backhaul links between base stations and mobile switching centers.

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What they do: picoChip has developed a processor for "hard" wireless applications, which radically changes the economics of wireless systems.

One of the major advantages is that it is completely flexible and can be upgraded from one technology to another - the software defined base station.

As part of this, picoChip has announced a "future-proof" WiMAX system: designed to support the latest version of the standard (802.16d) this can be updated or new features enabled purely through software.

MDU/MTU Importance: For MTU/MDU owners this enables them to deploy service immediately, without worries about technology selection or obsolescence: at any stage, the software can be upgraded to enable new features or to change to address the latest technology version.



Pulse~LINK, Inc.

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Contact: Paul Dillon, Vice President Business Development

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What they do: Pulse~LINK, Inc. specializes in UWB and Cognitive Software Defined communications technology for high performance delivery of multimedia content, data and VoIP across wireless, power-line and cable television networks.

Pulse~LINK will simultaneously deliver UWB Wireless, Cable and Power Line communications from the same microchip. Performance objectives are UWB wireless data rates of up to 920Mbps, UWB over-power (electrical wiring in homes and small offices) data rates of up to 125 Mbps, and UWB across existing cable television networks of up to 1.2Gbps new downstream bandwidth and up to 480Mbps new upstream bandwidth per node.

The evolution of Pulse~LINK technology includes future support for traditional wireless networking technologies, such as WiMax, WiFi, Bluetooth and others – also from the same microchip. Through a software defined cognitive radio approach, evolving Pulse~LINK technology could seamlessly update Pulse~LINK technology already deployed – eliminating much of the need to replace products already sold with Pulse~LINK technology inside.

MDU/MTU Importance: Access to and delivery of multimedia and data services evolves constantly. To simplify and reduce the cost of multimedia and data delivery technology selection, Pulse~LINK will provide one microchip that delivers paradigm new bandwidth connectivity and can intelligently assess the best transmission media – whether Cable, power-line or wireless, based on Quality of Service.

To eliminate some of the cost of purchasing and deploying continual technology upgrades, Pulse~LINK will enable software

defined intelligent self-upgrading functionality across the connectivity of Pulse~LINK enabled devices so that even deployed technology could “self-evolve” simultaneously with future technology advances.

MDU/MTU operators can leverage significant security and location positioning features of Pulse~LINK technology for property management. Initial adopters of Pulse~LINK technology will be the Homeland Security sector because of these strengths.

A Common Signaling Mode is employed to insure intelligent coordination of transmission media resources in MDU/MTU settings, eliminating un-intentional communications conflicts between adjacent tenants experienced with today's wireless and power-line network technologies.

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What they do: Headquartered in San Jose, California, Radiolan designs, manufactures, and markets high-speed wireless connectivity products for indoor and outdoor applications. Their BridgeLINK Wireless Ethernet Bridges provide high-speed building-to-building connectivity, and are used to extend a network infrastructure beyond a physical building. Radiolan enjoys many industry firsts, including the first wireless LAN operating in the 5 GHz unlicensed spectrum, the first product with an FCC U-NII type approval, and the first building to building bridge with an integrated Web Server for simple management and configuration.

BridgeLINK Wireless Ethernet Bridges connect distant Ethernet networks together into one seamless, robust network. Operating in the license-free frequency bands at 5 Gigahertz, BridgeLINK delivers extensive range, superior interference-immunity and performance comparable to the wired network itself. Judged best-of-class by Network Computing Magazine, Radiolan's Wireless

Ethernet Bridges offers real Ethernet performance, simple installation, and a friendly Web interface, all at a cost that makes choosing RadioLAN the smart decision. BridgeLINK... the easy way to network your networks.

MDU/MTU Importance: The BridgeLINK-Pro is a compact wireless bridge-in-a-box that connects distant Ethernet networks into one seamless, robust network. Engineered as a LAN-to-WAN interconnect, the BridgeLINK-Pro is ideal for ISP backhaul or broadband infrastructure for residential and business properties. Used in place of expensive Telco lines or trenching, the BridgeLINK-Pro can connect properties to their service providers, to each other, or to a central office, with incurring exorbitant Telco charges. The BridgeLINK is very cost-effective, typically costing as much as the Telco equipment necessary to setup a Link, but without any of the recurring service charges that make broadband so prohibitive. BridgeLINKs provide a much better ROI than T1 or T3 circuits – usually paying for themselves in 3 to 6 months.

Along with this, simplified packaging provides a lower Total Cost of Ownership with additional cost savings from simplified installation and tighter integration. BridgeLINK transceivers have an intuitive web-interface, enhanced monitoring and management tools, full Voice-over-IP support, and T1/E1 traffic prioritization. The BridgeLINK-Lite is a Point-and-Play Version of the BridgeLINK-Pro that can be installed by facility personnel in just a few hours. Other BridgeLINK-Pro units can reach distances of up to 32 miles and more, and can be installed by Radiolan Professional Installers in less than a day.

Redline Communications

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What they do: Redline Communications is a leading provider of standards based broadband fixed wireless equipment. Focused on high performance wireless solutions that are cost effective, fast to deploy, and integrate easily into existing wired networks, Redline

supplies systems for point to point and point to multipoint access and high capacity backhaul applications to telecom carriers, service providers and enterprises worldwide. Redline helps ensure wireless operations are not simply efficient - but flexible, reliable and responsive. Its technologies are designed to support global operations, and its reach reflects this, with customers in over 40 countries and across six continents leveraging fast deployments of worldwide wireless infrastructure. Redline is a principal member of the WiMAX Forum™, and is committed to developing WiMAX Certified™ products.

MDU/MTU Importance: Redline's products offer an ideal solution in a compact 1U form factor. Redline's products can transport up to four full rate T1/E1 lines as well as up to 30 Mbps of data over a wireless connection. Redline's equipment protects your investment if connections are converted to IP only and is capable of transmitting voice, video and data on a single link and reducing the cost of providing high speed data links between locations and eliminates OPEX.

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What they do: Integrating the latest advances in wireless broadband, distributed computing, and Internet technologies, SOMA Networks offers the industry's leading "last-mile" wireless broadband system. With the SOMA solution, service providers can quickly and profitably roll out a feature-rich package of broadband Internet access and landline-quality voice service to the residential and small-office market. Key advantages of the SOMA solution include its large cell size for quick and inexpensive market entry, multi-megabit data rates, true landline quality voice capabilities, non-line-of-sight access enabling self-installation of the SOMAport™ subscriber terminals, and simple subscriber self-activation of services via the Internet or telephone. Founded in 1998, SOMA Networks has development centers located in San Francisco,

California; Richardson, Texas; and Toronto and Ottawa, Ontario. For more information about SOMA Networks, please visit our website at: <http://www.somanetworks.com>.

MDU/MTU Importance: The SOMA solution easily addresses the broadband needs of the MDU/MTU market, particularly in rural or underserved areas where DSL or cable is expensive or impossible to deploy. SOMA's wireless broadband system was designed to enable anyone to become a full-service telecommunications service provider with the ability to profitably service local markets by owning their own facilities and allowing them to offer a feature-rich package of local, long-distance, and broadband Internet services to the residential and small business market. SOMA's Non-Line of Sight wireless architecture does not require external antennae, thereby reducing installation costs, time to service, and eliminating the eyesore of virtual "antenna farms" on the top or outside of buildings that other wireless solutions require to serve multiple customers. It also eliminates the need to negotiate antenna or access rights with landlords or to install internal wiring to each customer. With the recent adoption of Voice over IP (VoIP) for telephone service, SOMA's integrated VoIP capabilities further reduce the complexity and costs and allow for even greater revenue generation. As broadband penetration levels throughout the world continue to increase, wireless technology such as SOMA Networks' solution will prove to be the most economical way to deliver high-speed Internet access and voice to the MDU/MTU market.

Stella Doradus Industries Ltd.

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What they do: Stella Doradus Industries Ltd. Established in 1982 is a source of world-class antennas designed for the most demanding environments. The company's dedicated team successfully combines antenna design, engineering and manufacturing with superior service to offer outstanding value to

customers. Based in Ireland, Stella Doradus Industries is in the world center of excellence in electronics. The large geographical operations there have been the development ground for many key products with the fastest rollout time.

MDU/MTU Importance: Stella Doradus customers are wireless broadband system providers and installers worldwide. Serving both licensed and un-licensed bands in WLAN, MMDS, and LMDS systems. Providing equipment to markets in USA, Europe, Asia, Africa and Latin America.

Antennas include base station sectoral or omni patterns, planar flat panels, grid and solid parabolic antennas. Frequency bands from 1.4GHz to 5.8GHz are available. These are professionally made, economically priced antennas. They feature high efficiency and exceptional wind survival. Custom products always considered.

Talley Communications Corporation

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What they do: Talley Communications is a leading distributor of wireless communications infrastructure products. Based in Los Angeles Talley stocks leading manufacturer products in four distribution centers. For more than two decades Talley has supplied coaxial cable and assemblies, connectors, antennas, lightning protects, mounting equipment, test equipment more to complete a wireless system. Talley provides broadband radios for licensed and unlicensed applications from: Adtran, Aperto, Canopy, Redline, Stratech, Terabeam, Trango and WiLan.

MDU/MTU Importance: The MDU/MTU applications require Ethernet backhaul in either leased lines or wireless. Talley Communications offers their customers several radio brands providing low to high capacity licensed and unlicensed back-haul solutions for the MDU/MTU business plans. Talley offers low cost and robust true WAN solutions with integrated security for both Line of Sight and NON-Line of Sight ap-

plications from the 900MHz to 60GHz radio bands. Additionally Talley has a complete product portfolio of accessories ranging from solar to specialized mounting hardware to huge selection of antennas.

Times Microwave Systems

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What they do: Times Microwave Systems, a Smiths Group plc company, is an engineering-oriented company specializing in the design and manufacture of coaxial cable, coaxial cable assemblies and components.

Times is a pioneer in the development of coaxial cable and microwave cable assembly technology, evaluating the impedance and attenuation characteristics of coaxial cables as a function of frequency; and developing new materials, processes and improved coaxial cable constructions for both military and commercial use. Throughout its more than 55 year history, Times has continually made breakthroughs in the development of coaxial cable and interconnection systems and has more QPLs to the MIL-C-17 coaxial specification than any other company in the world.

MDU/MTU Importance: Products include high-performance flexible, semiflexible and rigid coaxial cable assemblies, connectors and delay lines for applications requiring phase stability, phase tracking and the lowest possible attenuation at microwave frequencies in the most hostile environments. Commercial wireless products for telecommunications applications include flexible 50 Ohm LMR® cables, connectors and assemblies.

Coaxial cable assemblies manufactured by Times are used in numerous military programs, and Times is the only qualified supplier of low-smoke/low-toxicity coaxial cables in accordance with the US Navy and Mil-C-17 requirements.

Times is approved as a qualified supplier of transmission line assemblies in accordance with Mil-T-81490 (NAVY) which covers microwave transmission lines for long life and stable performance in rigorous military

environments. Times has performed a key role in working with the government in the generation of RF and microwave specifications.

VCom, Inc.

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What they do: VCom designs and supplies leading edge broadband access transmission equipment, primarily for broadband fixed wireless networks and data over cable. VCom's products are designed to allow service providers to rapidly and cost-effectively bridge the last mile, by overcoming the bottleneck resulting from insufficient bandwidth existing in legacy last mile infrastructures. The Company's customer base includes original equipment manufacturers (OEM), system integrators and leading multiple system operators (MSO) and other service providers. Please find details at <http://www.vcom.com/>.

VCom's Broadband Wireless Internet Network based on proven Data over Cable Service Interface Specifications (DOCSIS™) technology. Our Broadband Wireless Internet Network, BWIN™ BASED ON DOCSIS™ proposal marries DOCSIS Cable Modem Termination Systems (CMTS) with VCom radio frequency (RF) technology. Commercial deployments have demonstrated that the BWIN™ BASED ON DOCSIS™ approach achieves high performance and reliability in a cost-effective fashion.

MDU/MTU Importance: The key feature of VCom's BWIN™ BASED ON DOCSIS™ solution is that high volumes of standard DOCSIS™ modems are being produced by a large number of manufacturers; the economies of scale created by this situation results in inexpensive, feature rich subscriber equipment. The basic most cost-effective network is designed with only a limited amount of redundancy. Options are available that provide full 1 to 1 redundancy for all CMTS and base

station RF equipment.

Service providers use VCom's BWIN™ BASED ON DOCSIS™ solution to deliver bandwidth intensive services to residential and business subscribers in areas that are underserved in respect to broadband connectivity.

Xytrans, Inc.

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Contact: Ed Weatherwax, Vice President,
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What they do: Xytrans manufactures integrated high-frequency outdoor units (ODU) for next-generation terrestrial wireless and 2-way satellite applications. Several features set these units apart from any competing products on the market today, including performance, manufacturing, mechanical and price advantages. Xytrans' breakthrough technology is compatible with scalable mass production techniques and provides a high level of integration, enabling cell-phone-like, snap-together assembly of the ODU. This results in common platforms for all licensed and unlicensed frequencies from 6-39 GHz, and a compact unit that is less than 3x6x3 inches and under 3 pounds. These two features, in turn, yield aggressive price points in quantity, rapid deployment, and a small footprint for easy installation. Despite its compact size and low price, the highly linear, broadband MMIC-based design supports modulations up to 256 QAM and data rates approaching 1 GB/s. The unit also features continuous real-time performance optimization across a broad temperature range and flexible output power.

MDU/MTU Importance: Although DSL and cable offer improvements over dial-up, these broadband alternatives are not ideal for MDUs or MTUs. Installation, availability, and data rate issues will continue to challenge these solutions. Similarly, for higher data rates, fiber is not the solution due to its cost and time of deployment. Networks employing high-frequency radios offer high data rates to satisfy the increasing bandwidth appetite of

computer-to-computer communications and video-intensive applications. Service can be rapidly deployed and expanded through a combination of wireless terrestrial and 2-way satellite approaches. By dramatically reducing the real cost driver in the radio link – the outdoor unit, representing 40-50 percent of the cost of the radio – the deployment of high-capacity links will expand. Xytrans' combination of manufacturing efficiencies and technology enables a 50-percent reduction in the cost of outdoor units, providing the price and performance needed for service providers to rapidly deploy high-bandwidth solutions.

YDI Wireless, Inc.

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What they do: YDI Wireless, Inc. (YDI) is a world leader in providing extended range, high-speed, license-free wireless data communication systems ranging from 19.9 Kbps to 1 Gbps. YDI products can be used for many diverse applications such as wireless Internet, wireless video, wireless LANs, wireless WANs, wireless MANs and MDUs/MTUs.

Specifically for the MDU/MTU environment, several key products give a competitive edge. YDI AP-Plus is a powerful, feature-rich, dual-channel 802.11b Access Point. While one channel services the clients in the MDU/MTU, the other can be used to transparently bridge all the wireless clients' traffic to a remote AP. For the backhaul, YDI EX-1, Link CX, or the Marquee Bridge offer reliable, transparent point-to-point wireless connections over the license-free radio bands. And for those installations that need an extra boost for that marginal coverage, the YDI Max Ranger is a low-profile amplified antenna that can be used with AP's or PC cards.

MDU/MTU Importance: Backed by its considerable experience in deploying wireless systems worldwide, YDI offers a total solution for the wireless Internet access in residential multifamily and commercial

properties. We sell to hotels and retailers that offer wireless Internet access to their clients. By constantly expanding its product portfolio and keeping abreast on the latest technologies and innovations in the wireless field, YDI is your guaranteed partner in satisfying the current and future demands of the MDU/MTU marketplace. Contact YDI today to learn how our products can help you deploy a powerful and profitable wireless infrastructure for your specific needs, or visit our Web site at www.ydi.com.

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