

More GPON suppliers and partnerships are lowering costs and increasing network flexibility

Centillium's New System-on-Chip Helps Providers Deploy VoIP

From BBP Wires

FREMONT, CA – Now that VoIP is nearly as reliable as “plain old telephone service,” or POTS, telcos have begun the long transition from circuit-switched telephony to the more cost-effective converged IP network. VoIP is also enabling providers other than traditional telcos to offer fixed-line voice services: Cable companies and FTTP network builders are entering the voice market with high-quality products so they can offer triple play bundles.

IP telephony will allow providers to offer advanced services like video telephony at affordable prices. “They can mix and match different traffic through the same pipe,” explains Hamid Jahromi, director of marketing at Centillium Communications (www.centillium.com). “That’s why IP is becoming hot. Telcos say that buying the system

is least of their concerns – the recurring cost [of a dedicated pipe] is what doesn’t allow them to expand. IP reduces that cost many times, because it doesn’t matter if the information going from Point A to Point B is voice or data.”

Centillium is behind much of this recent VoIP activity. Its system-on-chip solutions, or SoCs, help manufacturers bring electronic equipment to market quickly – for example, they come equipped with wireline and wireless codecs that save manufacturers years of development time. Centillium SoCs are the basis for much of today’s VoIP equipment, as well as of FTTP and DSL electronics.

Centillium’s newest VoIP SoC, the Entropia III-C, which was released this month, is scaled specifically for multi-service providers. Previously, manufacturers designing VoIP equipment for

these providers had to buy SoCs with more capacity than they needed. The Entropia III-C addresses their needs more cost effectively by providing high performance with a lower number of channels, according to Jahromi. Other advantages of the new SoC include:

- Ability to support wireline and wireless voice in the same chassis, maintaining the maximum 72-channel capacity regardless of the mix of codecs in routing
- High degree of integration (built-in host processor and security engine), translating to lower bill of materials cost
- Lower power consumption

Jahromi says the most likely first customers for the Entropia III-C are providers such as Telecom Italia, BT and China Telecom that have already committed to converged IP networks.

ECI Telecom's BroadGate-AccessWave Rounds Out Offerings

From BBP Wires

PETAH TIKVA, ISRAEL – The AccessWave is a compact optical networking platform targeting access and edge C/DWDM (Coarse/Dense Wavelength

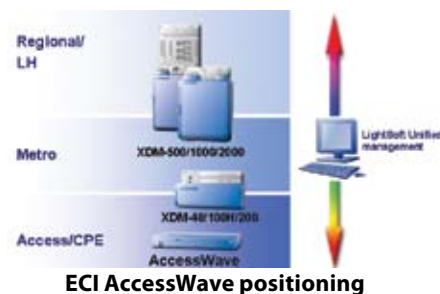
Division Multiplexing) applications. The footprint is as small as a one-rack unit. With this announcement, the BroadGate family now spans a complete line from access to long-haul solutions for service providers, all managed under a unified network management system – ECI’s LightSoft network manager.

LightSoft’s multilayer approach allows carriers to manage all technologies and network segments using a unified and centralized system, resulting in both capex and opex savings.

The AccessWave supports all commonly required data, storage and circuit services, with capacity ranging from less

than 2.5Gbps up to multiple 10Gbps. It offers unique aggregation and protection features that both reduce costs and enhance quality of service (QoS). The platform’s versatility and compact size make it an ideal choice for applications such as triple play delivery, business data continuity and storage extension. Furthermore, being environmentally hardened, the AccessWave is suitable for outside plant installations in copper, fiber or cable access optical networks.

The AccessWave is commercially available, and first customer orders are already in place. See www.ecitele.com for details.



ADC Launches Plug-and-Play MDU Solutions

From *BBP Wires*

MINNEAPOLIS – ADC (www.adc.com) announced a Plug-and-Play MDU Solution – a group of products designed to speed construction of fiber-to-the-premises networks in a variety of MDU architectures. The product family includes the OmniReach Plug-and-Play Indoor Fiber Distribution Hub (iFDH), the OmniReach Plug-and-Play Fiber Distribution Terminal (FDT) and the OmniReach Plug-and-Play MT Collector Enclosure.

The solution uses several new technologies that eliminate splicing in MDU deployments, in order to accelerate installation and reduce overall network costs:

- ADC microcable, which uses bend-optimized glass, allows reductions of up to 84 percent in the size of Fiber Distribution Terminals.
- Integrated spooling technology

allows rapid payoff for quick deployment.

- Time-tested sliding adapter packs provide extreme high density with superior hand access.
- Standards-based multifiber connectivity allows rapid deployment in MDU environments while eliminating the need for splicing.

Additional products introduced by ADC for the multiple dwelling unit market include the OmniReach indoor/outdoor splitter fiber distribution terminal and the Rack-Mounted Splitter Chassis product line.

The indoor/outdoor splitter FDTs, which are available in several sizes, are small-footprint wall boxes for splitting, splicing, and termination functions. For use in garden-style, mid-rise and high-rise MDU buildings, this family of products allows for a decentralized MDU-ONT architecture and offers an economical solution for MDU applica-

tions. These products are environmentally rated for indoor or outdoor use, accommodate 1x4, 1x8 and 1x16 splitters, and feature a compact solution for wall mounting that provides significant space savings while maintaining hand access and a strong feature set. The swing frame design also allows for easy access to the back section of the wall box.

The rack-mounted splitter chassis allow customers to utilize plug-and-play splitter modules in new ways. These chassis are designed for use in mid-rise and high-rise MDU equipment rooms suited for centralized ONT applications. They are designed to fit in both 19-inch and 23-inch fiber rack frames and accommodate up to 24 plug-and-play splitters. They are offered with cable management bracket kits. The chassis splitters, in conjunction with MDU ONTs, directly feed individual MDU living units from a centralized location, allowing for better utilization of existing MDU wiring.

New Alpha Uninterruptible Power Supply

From *BBP Wires*

BELLINGHAM, WA – Power systems provider Alpha Technologies (www.alpha.com) recently announced its latest fiber-to-the-home powering solution, the FlexPoint 1230, a 12-Volt, 30Watt

FiberUPS.

The FlexPoint 1230, which is designed for indoor or sheltered-outdoor installation, is compatible with both PON and HFC-PON networks, due to its optional F-connector. It also features an emergency battery reserve function

for lifeline service availability. In the event of a power disruption, the FP1230 keeps home communications alive, and also preserves 25 percent of the battery power for emergency reserve – thus allowing emergency phone calls during an extended outage.

Anritsu Introduces Tester for FTTx Drop Cables

From *BBP Wires*

KANAGAWA, JAPAN – Anritsu Corporation (www.anritsu.com) announced the new Network Master MT9090A Fault Locator Series, a micro-OTDR (optical time domain reflectometer) for FTTx and short-range optical networks.

Until now, the company says, the right tool didn't exist for cost-effective

testing of short fibers. Traditional hand-held OTDRs and fault locators lacked the resolution and specifications to find faults in short spans (that is, they could not transmit short enough light pulses), while mini-OTDRs were too large, too expensive and too complicated.

Anritsu's new MT9090A, with the MU909011A Fault Locator Module, ad-

dresses this need with a compact, modular test set that has all the features and performance required for installation and maintenance of short fibers. Data sampling of 5cm and dead zones of less than 1m ensure accurate and complete fiber evaluation, and a simple testing sequence can be initiated with one keystroke – enabling error-free measurements.

Bend-Insensitive Armored Drop Cables from Sumitomo

From *BBP Wires*

RESEARCH TRIANGLE PARK, NC – Sumitomo Electric Lightwave says its new PureFit armored drop cable provides added armoring protection and reduces cable preparation and installation time for buried cable applications. The new cable is available with Sumitomo’s PureAccess Bend-Insensitive fiber to provide the increased flexibility required for greater fiber density and low bend-

ing loss in FTTx terminals and closures, component and tight-access wiring for network interface devices at the premises, and other applications leading directly to the final drop to the premises.

The new drop cables feature fibers with minimum bend radius of 15 mm, a 50 percent decrease in bend sensitivity compared to its conventional single-mode fiber. The design produces a rugged loose-tube cable characterized by a single nonsticky gel-filled tube. The core

tube, which contains up to 12 fibers, is helically wrapped with water-blocking strength members, allowing for clean, fast, and easy cable preparation, installation and clean up, says the company. The corrugated steel armor of the cable is encased with a black polyethylene jacket, providing compressive strength and rodent protection and easy cable identification. It is RUS-approved. Visit www.sumitomoelectric.com.

Draka Comteq Intros BendBrightXS Bend-Insensitive Fiber with ColorLockXS Coating

From *BBP Wires*

AMSTERDAM – Draka Comteq says its latest fiber coating technology, ColorLockXS, will be available on the company’s flagship bend-insensitive fiber, BendBrightXS, in January. BendBrightXS, which Draka Comteq claims was the first true bend-insensitive fiber when it was introduced in 2006, maintains backward compatibility with existing fiber infrastructure.

ColorLockXS improves fiber micro-bending performance as well as strippability, while adding new vibrant colors

integrated into the fiber coating. BendBrightXS is an all-glass fiber. With its use of proven materials and technology, it eliminates splicing concerns or special procedures needed to connectorize the fiber.

The micro-bending improvement includes resistance to kink losses, a key metric to determine fiber performance in tight bends in FTTx applications, such as stapling cables. Kink loss can be described as partial bends up to 45 degrees of the optical fiber at radii as small as 2 mm. Typical losses for BendBrightXS in such a scenario are given as less than 0.1

dB, even at a 2-mm radius, which represents up to a 100-fold improvement over standard single-mode.

ColorLockXS uses a patented technology in which the fibers are colored during the draw process; with integrated colors in the fiber coating, the fiber color is guaranteed not to wear, maintaining vibrant colors throughout the lifetime of the fiber. More importantly, says Draka Comteq, its BendBrightXS with ColorLockXS is the only optical fiber in the world to be proof-tested after coloring. More data is available at www.drakafibre.com.

GPON with OMCI Capabilities from BroadLight and OpenCon Systems

From *BBP Wires*

MOUNTAIN VIEW, CA – BroadLight (www.broadlight.com), a major supplier of GPON semiconductors and software, is partnering with OpenCon Systems (www.opencon.com) to deliver the first field-proven GPON silicon with advanced OMCI capabilities for the ONT and ONU. “Our partnership

with OpenCon enables our customers to quickly and easily incorporate ONU and OLT OMCI stack capabilities into their products,” says Doron Tal, vice president of business development and product management at BroadLight. “We look forward to being the only GPON vendor offering these time-to-market advantages and ITU-T field de-

ployed solutions to our customers as the GPON market ramps up in volume.”

Ming Lee Gee, vice president of sales and marketing at OpenCon Systems, says, “Our OMCI package has been seamlessly integrated with BroadLight’s BL2000 and BL3000 family of GPON processors to offer an easy-to-use and field-proven design.”

Allied Telesis Upgrades Software for iMAP

From *BBP Wires*

BOTHELL, WA and **CHIASO, SWITZERLAND** – Allied Telesis (www.alliedtelesis.com), a provider of IP/Ethernet access solutions, announced the latest software version for its integrated Multiservice Access Platform (iMAP). Release 10, which supports all iMAP chassis, enhances the device's fiber, VoIP, and copper access features.

Customers deploying FTTH can now use the ultrahigh-density 100BX fiber line card. This 20-port card doubles the port density of the existing iMAP fiber cards. The increased fiber density lets service providers keep up with the growth in the number of FTTH subscribers, while reducing the overall cost of each fiber connection deployment, according to Allied Telesis CTO Phil Jopa.

New VoIP features available in the iMAP chassis include native support for three-way calls, eliminating the need for service providers to deploy adjunct conferencing hardware. Service providers can reap the cost benefits of VoIP backhaul by deploying the iMAP/ POTS24 cards in the last mile. Existing analog telephone users can continue to use their existing equipment, with equivalent levels of functionality.

Corning Cable Systems Debuts New 1x64 Splitter

From *BBP Wires*

ORLANDO, FL – Corning Cable Systems has a new module to complement its family of OptiTect Gen III local convergence cabinet splitters. The new 1x64 splitter is targeted for GPON customers looking for a single centralized splitter

for use in the outside plant-rated OptiTect Gen III Cabinet. It's based on the design of the OptiTect Gen III splitters deployed in thousands of cabinets around the world, says Corning Cable Systems.

It meets Telcordia GR-1209-CORE and GR-1221-CORE and utilizes GR-326 certified SC APC or SC UPC con-

nectors. It is the same size as Corning Cable Systems' current 1x32 and dual 1x16 modules and is interchangeable across all OptiTect Gen III Cabinets. Its SMF-28e XB fiber offers a more robust field-hardened device, says the company. Visit Corning Cable Systems at www.corning.com/cablesystems.

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