

June 17, 2005

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# ElectroniCast Photonics

*A Journal of the Fiber Optics Group*

## Advanced Innovative Product News: SensL

***The first of its kind to incorporate a solid state photon counting sensor with microprocessor based dynamic setting and control features***

SensL a provider of innovative low light detection modules for applications ranging from health diagnostics, medical analysis, bio-medical sensing to astronomy, lidar and environmental protection announced the introduction of their "PCMPlus" Intelligent Photon Counting Module – the first of its kind to incorporate a solid state photon counting sensor with microprocessor based dynamic setting and control features.

The incumbent technology in most applications today is the 1950's vacuum multiplier tube but SensL's solid-state solution, with it's unique features, allows a new level of control, miniaturisation and flexibility. This gives the photon counting community a new tool to fundamentally overhaul current applications and further enable new ones. "The PCMPlus heralds a new generation of photon counting products and capabilities from SensL" said Joseph O'Keeffe, CEO. "The built-in intelligence of the PCMPlus means that for the first time it is possible to buy a generic off the shelf photon counter and dynamically optimize its performance to suit a wide range of applications and performance conditions."

The PCMPlus module incorporates a novel counting function (which eliminates the need for external counting electronics), has excellent timing resolution and utilises a patented technique to achieve very high quantum efficiency. Dr Carl Jackson, CTO, commented, "The PCMPlus is the ideal solution for most photon counting applications in the visible spectrum and since our technology is solid-state CMOS compatible, we can rapidly produce custom detector shapes for new or emerging applications".

SensL's PCMPlus is in full production release and is available with options for both stand-alone and fibre pigtailed versions. An extended dynamic range option is also available allowing the module to detect from single photons through to normal light intensities.

About SensL – SensL is a private venture backed company having secured first round funding in 2004 from Delta Partners, one of Ireland's leading Venture Capital firms. SensL has revolutionary technology in low light sensing and imaging, and offers a range of products including miniature photon counting sensors and modules, large area high gain APDs and PIN diodes.

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**Advanced Innovative Product News: ECI Telecom**

**First Mini MSPP with Built-in Ethernet Switch and DS0 Cross-Connect –Enables Remote Management from Base Station or Sub-stations**

ECI Telecom, announced its BroadGate™-40, a miniature Multi-Service Provisioning Platform (MSPP), designed for metro access and Wide Area Networks (WANs). The scalable architecture of the BroadGate-40 allows for the provisioning of new carrier-class Ethernet services over SDH to meet the needs of medium and large enterprises, utility companies and cellular operators.

Unique to ECI's BroadGate-40 MSPP is the narrowband cross-connect integrated in the platform, which includes low bit rate interfaces such as voice channels and V24/V35 for data services. These capabilities enable cellular operators as well as utilities to remotely control various types of equipment sets in a unified manner from the Base Station Transmitter (BTS) or sub-stations. This eliminates the need for multiple conversion units and delivers both CapEx and OpEx savings.

“Adding this latest miniature MSPP to our optical product portfolio gives the XDM platform ultimate breadth and depth. It allows ECI to extend its MSPP capabilities from metro access to regional and right to the core of optical networks,” said Eran Dariel, Executive Vice President and General Manager of ECI Telecom's Optical Division. “We believe the BroadGate-40 will greatly benefit utilities and cellular operators looking to increase their revenue streams while reducing costs.”

**Vendor Selection: Corning**

Corning Incorporated and Kabelvision, part of PT Broadband Multimedia Tbk of Indonesia, announced that Kabelvision will deploy Corning's access-optimized NexCor single-mode fiber in the latest expansion of its hybrid fiber-coaxial network. PT Communication Cable Systems Indonesia will provide the cable for this project.

Kabelvision, a leading Indonesian cable TV and data services provider and the only company in Indonesia with an existing HFC network, is rapidly expanding that network, which currently passes 220,000 homes in the Jakarta metropolitan area, as well as in Bali, Surabaya and several small resort areas. Their latest expansion, which includes Corning NexCor fiber, will serve Jakarta City and the outlying suburbs, passing another 120,000 homes by 2006.