

u²t Photonics samples 100G coherent receiver

Berlin, Germany, January 18th, 2010 – **u²t Photonics AG**, the provider of innovative, leading edge optoelectronic components such as highly functional integrated receivers and modulators, today announced the availability of its 100 Gbit/s coherent photoreceiver for long-haul 100 Gbit/s communication systems using the DP-QPSK (Dual-Polarisation Quadrature Phase Shift Keying) modulation format. u²t is now sampling this new product for system level testing to both, sub-system and equipment manufacturers.

The new CPRV series will offer a family of very compact coherent receivers for DP-QPSK applications. Due to its advantages in terms of reach and spectral efficiency, DP-QPSK with coherent detection is widely accepted as the technology of choice for the next generation 100 Gbit/s transmission systems. u²t has been a significant contributor for the development of the Implementation Agreement on 100G long-distance integrated photonics receivers within the OIF (Optical Internetworking Forum, <http://www.oiforum.com>) and so u²t's receiver is based on these requirements as well as on the specifications of the CCRx-MSA for coherent receivers.

The CPRV1010A receiver offers balanced detection for best sensitivity. Used in a polarization diversity scheme it comprises of two 90° hybrids, 8 photodiodes and 4 linear amplifiers, all integrated into a very compact surface mount package. It provides 4 differential 32 GBaud output signals into the following ADC (Analogue to Digital Converter) circuitry via a coplanar electrical interface, covering FEC (Forward Error Correction) overhead. Automatic gain control and a multitude of control functions allow for a wide dynamic range of optical input signal powers between -18dBm and 0dBm

“One key success factor for the fast development of such complex product using new technologies was our close cooperation not only with subsystem and equipment manufacturers but also with component suppliers”, said Jens Fiedler, VP Sales and Marketing at u²t, “We had to ensure compliance to system requirements and interface specifications in order to enable successful system level integration and immediate testing. We are really excited about the tremendous interest in this new product. The demand for the upcoming months is already exceeding the forecasted quantities.”

Loi Nguyen, Inphi's vice president, networking and communications products stated, “u²t is a major supplier of optoelectronic components, and we were pleased to work closely with them on their new 100G coherent receiver. By using our new Inphi 2850TA, the industry's first Transimpedance Amplifier (TIA) based on the OIF Implementation Agreement, u²t can assure their customers that their new product adheres to rigorous standards for successful design.”

u²t announced the availability of prototypes of its new product platform starting in January this year. The CPRV series is scheduled to be ready for volume production in the second half of 2010. The product will be displayed in the 40G/100G device zone booth #East 4-32 at FOE 2010 in Tokyo, January 20th to 22nd.

u²t Photonics AG, founded in 1998 and headquartered in Berlin/Germany, is a leading supplier of ultra-high speed optical components up to 100 GHz.

Based on its unique and mature technology u²t develops, manufactures and markets highly competitive products for High Speed Communication applications and detectors with superior performance for Test and Measurement Equipment vendors. A platform approach based on building blocks enables u²t to offer a comprehensive and fully TELCORDIA qualified portfolio supporting the requirements from transponder vendors, line card and system designers as well as test equipment vendors. u²t is ISO9001 certified and offers high quality of service.

About Inphi

Inphi Corporation, a high-speed analog semiconductor company, provides leading-edge interface components that operate at critical interfaces within cloud computing environments, addressing the bandwidth, capacity and power issues faced by data centers and 40G/100G networks. By leveraging its core competencies in advanced analog circuit design, signal integrity, power management, packaging and process technologies, Inphi has taken a leadership role in the markets it serves. Inphi's more than 150 analog components push the boundaries of existing server, storage and broadband networking applications while paving the way for new ones. To learn more about Inphi, visit www.inphi.com.

u²t contact:

Jens Fiedler, u2t Photonics AG, Tel. +49 (30) 726 113 530, fiedler@u2t.de