

HiLight Semiconductor Ltd
Delta House
Southampton University Science Park
Southampton
SO16 7NS
UK

Contact: Christian Rookes
VP Marketing
christian.rookes@hilight-semi.com
Tel: +44 (0)7866 432638

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HiLight Semiconductor announces the world's first 4-in-1 pure CMOS 12G 'Combo' IC (HLC12V0) for SFP+ SR applications, available for production

HiLight Semiconductor are pleased to announce the production availability of the HLC12V0 4-in-1 transceiver IC for use in 10G SFP+ SR and AOC applications. Combining HiLight's CMOS HLR10G0 TIA with the new HLC12V0 provides a complete CMOS chipset solution for these Datacom applications.

The HLC12V0 SR Datacom 'Combo' IC highly integrated 4-in-1 functionality features are: 12G limiting amplifier receiver; 12G transmitter; integrated 8051 microcontroller and non-volatile memory with embedded firmware providing digital diagnostic monitoring. This is the first time all of these functions have been combined together in a single CMOS transceiver IC for SFP+ SR and AOC applications. When used with HiLight's HLR10G0 CMOS transimpedance amplifier customers can realise a complete SFP+ SR transceiver or AOC which offers significant BOM cost savings, enhanced performance and the lowest operating power in the market.

HiLight will shortly make available the HLC12L0 LR 'Combo' IC with 5-in1 integrated functionality alongside a complete SFP+ LR reference design with typical power consumption of 700mW. Interested customers should contact their HiLight sales representative.

HiLight will be demonstrating the HLC12V0 and the HLR10G0 10G SFP+ reference design at CIOE 2018, Shenzhen, China. In addition, HiLight will also be demonstrating their forthcoming 100G Datacom product line capability with a complete quad 25G receiver with integrated CDRs, consuming less than 600mW typical. The quad receiver IC forms part of a complete CMOS chipset solution for 100G QSFP28 applications developed by HiLight for next generation 100G optical links requiring reduced power consumption and lower BOM costs as volume demand continues to grow in Asian markets and specifically for China's vast mega-datacentres requirements.

“Over the last decade, China made the single greatest impact on the global optical communications industry more so than any other country,” detailed Vladimir Kozlov, CEO and Founder, LightCounting Market Research. “The upgrades of Cloud datacenters in China to 100G connectivity are just starting. Low cost and power consumption of optics are critical for all Cloud customers, but datacenter operators in China may push it to new limits.”

Other products to be demonstrated at CIOE include the HLC10P0 10G-PON BOSA-on-Board reference design with patented transmitter dual-loop control, which is also a pure CMOS solution enabling low power, exceptional performance and reduced BOM costs.

Christian Rookes, VP Marketing at HiLight, commented “HiLight’s HLC12V0 is a highly integrated SFP+ SR solution to address the continued demand and volume, especially in China datacentres, for 10G optical interconnect. In addition to the HLC12V0 Combo IC for VCSEL applications, HiLight is releasing the HLC12L0 5-in-1 functionality Combo IC for SFP+ LR and CPRI 10/12G directly modulated laser applications to bring CMOS low power and BOM cost savings to longer distance datacom and wireless mobile optical links.” He added “With HiLight’s existing portfolio of TIAs, we are now able to provide complete 10G Datacom chipsets and, with our forthcoming 100G Datacom chipset, customers will be able to remain competitive when using HiLight’s CMOS IC solutions for their next generation 10~100G Datacom transceivers”.

Jess Brown, VP Sales, added “The HLC12V0 SFP+ SR reference design is already sampling to key customers and we are excited to announce the production availability of the HLC12V0 to provide a complete CMOS chipset to customers. The forthcoming availability of our HLC12L0 SFP+ LR reference design means our customers will be able to make use of our ever growing competitive portfolio of Datacom products to develop cost competitive, high performing, low power solutions.”

About HiLight Semiconductor Limited:

HiLight Semiconductor Ltd. is a Venture Capital backed, Fabless chip company, founded in 2012 by veterans of several previous start-ups. Specialising in deep sub-micron CMOS, the company designs and supplies the world’s highest performance PMD and PHY ICs for high speed fiber-optics based communications and networking/Datacentre applications.

At the time of writing the company has already sold over 60 Million ICs into the fiber based PON, Datacentre and Networking markets.

HiLight is headquartered in Southampton, UK, with design offices in Bristol UK and sales and local technical support offices in China (Shenzhen, Wuhan), Taiwan and Japan.