News Release

GPON reference design from Freescale and OpenCon enables rapid creation of affordable CPE solutions

Joint solution speeds and simplifies development of optical network terminals

Shenzhen, China (Freescale Technology Forum) - Nov. 28, 2007 - The industry's only voice enabled gigabit passive optical networking (GPON) SoC is now available as part of a comprehensive hardware/software reference design kit developed to spur the creation of affordable, highly integrated GPON customer premises equipment (CPE). A top supplier of GPON processors, Freescale Semiconductor collaborated with OpenCon Systems to create the offering.

The reference design kit, available now from OpenCon Systems, includes a turnkey software solution for optical network terminals (ONTs) based on field-proven OMCI management technology that ships with Freescale's MSC7120 GPON device. The OpenCon software solution also leverages the MSC7120's on-chip DSP to support SIP-based VoIP voice telephony services.

GPON technology enables the convergence of IP over optical networks, offering connection speeds much higher than today's DSL- or DOCSIS-based networks. It is a key enabler for bandwidth-hungry "triple play" applications such as HDTV and Video on Demand. The technology addresses the high data forwarding throughput requirements of several applications including the delivery of broadband services to the home or small business.

The kit is expected to prove especially attractive to Asia-Pacific ODM customers looking to enter broadband-over-fiber markets quickly and with relatively low investment levels. Deployment of fiber-based network technologies is gaining momentum in highly populated areas of Asia.

"Enabling triple play services at the speed of light requires a complete enablement solution for ODM and OEM customers," said Jeff Timbs, director of strategic marketing for Freescale's Networking Systems Division. "By combining our outstanding performance and integration with OpenCon's field-proven OMCI solution, manufacturers can now quickly create and deliver world class CPE products to market."

The solution's software package includes user applications and management modules, a complete OMCI stack and APIs that interface to the Freescale device. The package enables communication between the GPON CPE and the central office at the service layer thereby enabling the central office

to seamlessly manage and control the data flow to and from the subscriber ONTs.

"Together, Freescale and OpenCon are providing comprehensive software for the most advanced GPON SoC solution available in the market today," said Jonathan Ma, president and CEO of OpenCon Systems. "To further enable GPON ONT product development, we are also offering systems integration and bring-up services, so our joint customers can rely on OpenCon's extensive experience in providing a range of solutions for this market."

About the MSC7120 GPON SoC

Freescale's MSC7120 is the industry's first voice enabled GPON SoC. The dual-core MSC7120 integrates a Power Architecture™ CPU, a StarCore® DSP and a data path engine to deliver a complete PON sub-system in a single device. The device supports the G.984 GPON GEM protocol and is designed to be compliant with the ITU-T standards. It addresses the high data forwarding throughput requirements of PON applications including the delivery of "triple play" (voice, video and data) broadband services to the home or small business.

About Freescale Semiconductor

Freescale Semiconductor is a global leader in the design and manufacture of embedded semiconductors for the automotive, consumer, industrial, networking and wireless markets. The privately held company is based in Austin, Texas, and has design, research and development, manufacturing or sales operations in more than 30 countries. Freescale is one of the world's largest semiconductor companies with 2006 sales of $6.4 billion (USD). www.freescale.com

About OpenCon Systems

OpenCon Systems (www.opencon.com) is one of the leading network management solution providers. It offers Embedded Network Management System Solutions for transmission equipment such as SONET, SDH and DWDM systems. OpenCon also offers Network Management System ("NMS") solutions for other Network Elements ("NEs"), ranging from access nodes to mediation devices and Ethernet demarcation devices. In addition to being an acknowledged leader in SONET/SDH and NMS solutions, the Company also became a recognized industry leader in providing GPON ONT total solutions, and OpenCon's OMCI package has been widely accepted by both GPON OLT and ONT vendors. www.opencon.com

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