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AMCC's New 10G ENET/OTN Framer/Mapper/PHY PEMAQUID Device Enables Metro Ethernet Equipment to Connect Directly to 10GbE Optical Networks

The PEMAQUID (S19258) Is Optimally Designed for Line Cards in Carrier-Grade Switches/Routers, 10GbE/OC-192 MSPPs and OTU2 DWDM Networks

Sunnyvale, CA - - January 29, 2008 -- Applied Micro Circuits Corporation (NASDAQ: AMCC), a global leader in embedded Power Architecture™ processing, optical transport and storage solutions, today announced PEMAQUID, a XAUI-to-XFI 10G LAN/WAN/OTN Framer/Mapper/PHY device for 10GbE, 10G Fibre Channel, WIS (OC-192/STM-64) and OTU2 network applications.

The PEMAQUID (S19258) represents AMCC's first device in its MEtrON (Metro Ethernet Optical Networks) product family that is designed for Metro Ethernet and Carrier Grade Ethernet solutions systems. PEMAQUID enables cost-effective Carrier Ethernet solutions for the Metro WDM Transport Network.

Carrier service providers' desire to migrate from traditional SONET/SDH transmission equipment to Carrier-Grade Ethernet equipment and 10GbE/OTN services requires new cost effective silicon. PEMAQUID is the first physical layer device on the market today that truly enables this Ethernet to OTN convergence. Prior to the availability of, PEMAQUID service providers had to back-end Carrier Ethernet and Switch Router platforms with DWDM equipment to enter/exit Optical Transport Networks.

PEMAQUID, with its integrated 10GbE to OTU2 mapping modes, EDC, FEC, and XAUI and serial 10G Interfaces, is an optimally designed product for this migration. PEMAQUID enables the direct connection between 10G MACs, Network Processors, or 10GbE Switches, and XFP/SFP+ optical modules. A single PEMAQUID can take the place of up to three devices, an FEC/Framer/Mapper device, an SFI4.1 to Serial 10G Physical layer device, and a bridge device to connect the 10G MAC to the FEC/FRAMER/Mapper.

The PEMAQUID is ideal for Metro-Ethernet Switch/Router and DWDM systems. The highly integrated device supports pure 10GbE LAN Metro-Ethernet networks, as well as WAN and OTN networks via its rich suite of 10GbE over WAN and OTN mapping modes. With its integrated serial 10G PHY XFI/SFI interface and provisional G.709 GFEC/EFEC features, it provides a seamless interface to XFP and SFP+ optical modules. It is ideally suited for carrier-grade Metro-Ethernet switch/router cards, OTU2 DWDM client tributary and line cards, and 10GbE/OC-192 multi-service provisioning platform (MSPP) client tributary and line cards.

"In addressing the emerging Metro-Ethernet network, there is a desire to leverage as many aspects of the low-cost enterprise Ethernet infrastructure as possible," said Neal Neslusan, Director of Transport Marketing at AMCC. "PEMAQUID is ideally suited to enable this capability as it facilitates a direct connection between 10G MACs, switches, and Network/Packet Processors commonly used in all enterprise Ethernet equipment to the OTN network. AMCC's technology portfolio enabled us to rapidly deliver this highly integrated leadership product to market. We are seeing an incredible traction in the marketplace for this device with its rich feature set, and several customer platforms are already in advanced design phases."

"AMCC's PEMAQUID device is a major step forward in the integration of 10G I/O technology and 10GbE framing/mapping services," noted Michael Howard, Principal Analyst and Co-Founder at Infonetics Research. "The S19258 increases the efficiency and lowers the cost of equipment for 10GbE over Optical Transport Networks (OTN), as well as 10GbE LAN and WAN networks. PEMAQUID hits the design mark as a 10G Framer/Mapper/Phy solution for next generation Packet Optical Transport Systems."

By leveraging the 10G Mapper/OTN/FEC functionality from AMCC's very successful Rubicon product family and integrating 10G PHY and XAUI interfaces from AMCC's world class QT2x25 PHY product line, the company has created a highly integrated solution that provides dramatic savings in terms of cost, power and space. With its integrated FRACn synthesizer, only one low cost external reference oscillator is required to enable PEMAQUID to support 10G line rates from 9.954Gbps up to 11.32Gbps, while meeting SONET/SDH and OTN jitter requirements.

In addition to this timing flexibility, the PEMAQUID device supports seven 10GbE mapping modes, including: Bit Transparent Mapping, GFP mapping, WIS framing, and 10GbE LAN pass-thru modes.

Also, with integrated ITU G.709 FEC, and AMCC's Enhanced FEC (ITU G.975.1.14), PEMAQUID enables Metro and Long Haul transmission of 10GbE over OTN networks in low OSNR environments. In addition, the GFEC and Enhanced FEC also compensates for nonlinear inter-channel impairments, which allows for a narrow channel spacing of 25Ghz for DWDM systems.

With its feature rich 10GbE mappings, framing, FEC, and integrated 10G Phy, the PEMAQUID is available in a small 19x19 package and consumes only 2.5 watts under typical applications.

The S19258 is sampling now to alpha customers. General availability is scheduled for March 2008.

SOURCE: Applied Micro Circuits Corporation

ABOUT AMCC

AMCC is a global leader in network and embedded Power Architecture processing, optical transport and storage solutions. Our products enable the development of converged IP-based networks offering high-speed secure data, high-definition video and high-quality voice for carrier, metropolitan, access and enterprise applications. AMCC provides networking equipment vendors with industry-leading network and communications processing, Ethernet, SONET, OTN and switch fabric solutions. AMCC is also the leading vendor of high-port count SATA RAID controllers enabling low-cost, high-performance, high-capacity storage. AMCC's corporate headquarters are located in Sunnyvale, California. Sales and engineering offices are located throughout the world. For further information regarding AMCC, please visit our web site at <http://www.amcc.com>.

Forward Looking Statements

This press release contains "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by words such as expects, anticipates, plans, believes, estimates, will or words of similar meaning. Such forward-looking statements, including statements relating to the products discussed in this press release, are subject to a number of risks and uncertainties, including the risk that the products may not be successfully or timely developed, completed or manufactured or achieve market acceptance, risks relating to general economic conditions, as well as the risks and uncertainties set forth in the Company's Annual Report on Form 10-K, and in the Company's other SEC filings. As a result of these risks and uncertainties, actual results may differ materially from these forward-looking statements. The forward-looking statements contained in this press release are made as of the date hereof and AMCC does not assume any obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise.

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Company Contacts:

Applied Micro Circuits Corporation
Gilles Garcia
(o) 408-542 8687
(c) 408-786-4317
ggarcia@amcc.com

Media Relations:

The Bernard Group
Tom Price
(o) 512-327-2195
(c) 512-415-7744
tprice@bernardgroup.com