

Compact Managed 28-Port Rugged 1/10 Gigabit Ethernet Switch Enables Rapid Development of Custom Switch Solutions

Sunnyvale, Calif. — October 1, 2020 — Diamond Systems has unveiled the latest model in its popular line of compact gigabit Ethernet switch modules. The **EPSM-10GX4** managed switch offers 24 10/100/1000 Ethernet ports plus 4 10G ports and embedded Layer 2 / Layer 3 switching / routing software in the ultra-compact size of 2.2 x 3.3" (55 x 84mm). EPSM-10GX4 enables the rapid development of custom Ethernet switch boards and systems, dramatically reducing development time, cost, and risk while providing instant access to a rich range of software features without any programming required. EPSM-10GX4 is designed to meet the challenges of vehicle and other harsh environments with its 50% thicker PCB, -40/+85°C operating temperature range, and MIL-STD-202G shock/vibration resistance.

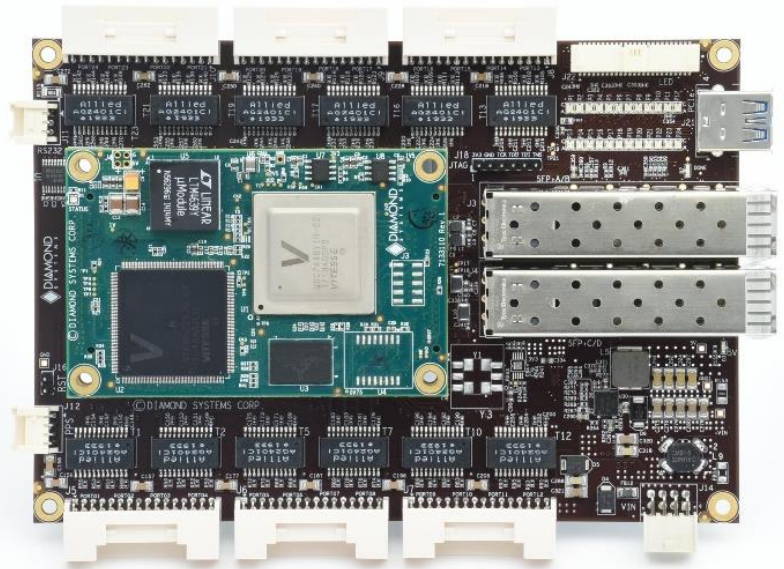
The module is intended to be used on a carrier board, such as Diamond's **EPS-24G4X**, to implement a complete Ethernet switching solution. The core Ethernet switching technology is almost fully encapsulated on the module; for many applications, only the "last inch" of magnetics and I/O connectors is required on the carrier board, enabling easy development of carrier boards and systems. Customers seeking a full-turnkey solution can also subscribe to Diamond's custom carrier board and system design and manufacturing services, taking advantage of the company's extensive Ethernet switch design experience and manufacturing supply chain to reduce risk and time to market even further.

The module's small size, based on the industry-standard COM Express Mini form factor, makes EPSM-10GX a perfect choice for use as a building block for creating custom Ethernet switch solutions in a variety of space-demanding applications, such as drones, ground and underwater vehicles, and robotics, where size and weight are often critical design considerations. A development kit is available, featuring the EPS-24G4X, a cable kit, and full carrier board schematics and bill of materials to speed up custom designs.

Two embedded switch software packages are available, Layer 2+ switching and Layer 3 routing/switching. In addition, IEEE-1588 precision time protocol support is available with



EPSM-10GX4 Ethernet Switch Module



EPS-24G4X Board-Level Solution

an external precision clock circuit and 1pps signal source provided by the carrier board. All software features are manageable via a GUI web interface accessible over any port, as well as with a command language accessed via a built-in RS-232 port. Software customization services, including addition of features and customer branding, are available.

Availability

The EPSM-10GX4 managed 28-Port Gigabit Ethernet Switch Module is shipping now. Contact Diamond Systems at sales@diamondsystems.com for quantity pricing and special-order options.

About Diamond Systems

Diamond Systems Corporation is a global provider of rugged, I/O-rich embedded computing solutions for companies in a broad range of markets, including transportation, energy, aerospace, defense, manufacturing, medical and research. Diamond's extensive [product line](#) includes compact, highly integrated single board computers (SBCs); an extensive line of expansion modules for analog and digital I/O, wired and wireless communications including multiprotocol serial ports and Ethernet switches; and complete, rugged, system-level solutions. For further information, please visit www.diamondsystems.com.

Web Resources

EPSM-10GX4 Ethernet switch product page:

<http://www.diamondsystems.com/products/epsm10gx4>

EPSM-10GX4 Ethernet switch module Datasheet:

http://www.diamondsystems.com/products/display_datasheet.php?handle=epsm10gx4

EPS-24G2X4 Ethernet switch module product page:

<http://www.diamondsystems.com/products/eps24g4x>

EPS-24G2X4 Datasheet:

http://www.diamondsystems.com/products/display_datasheet.php?handle=eps24g4x

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