

## **Ethernet media converter transmits data up to 100Km**



B&B Electronics Manufacturing Company released its iMcV-Giga FiberLinX-III gigabit intelligent Ethernet media converter. This highly anticipated third generation of the company's successful FiberLinX family is a 10/100/1000Mbps copper to 1000Mbps fiber device, converting existing copper wiring-based networks to fiber optics. It securely transmits data from end to end over fiber (up to 100Km), well beyond copper's distance limitation (328 ft., 100 m). A new single-wide module replaces the previous dual-wide module, now occupying only one slot to reduce the cost-per-slot in a multi-port chassis. New network management and troubleshooting capabilities also provide functionality similar to that of a Layer 2/3 switch, offering Internet Service Providers (ISPs) and large campuses a less expensive alternative to these traditional fiber switches.

The iMcV-Giga FiberLinX-III is geared towards gigabit networking applications where there is a need to securely move large amounts of data over long distances of fiber with remote management, to reduce onsite visits for troubleshooting equipment. Such geographically dispersed applications include ISPs, large campuses (universities), enterprises with global locations, security (IP cameras for surveillance), and transportation (digital signage and traffic signals).B

Beyond the previous generation's role as an edge device only, the iMcV-Giga FiberLinX-III can now operate similar to a switch and serve as a central office infrastructure connection, including meeting the current 802.3ah IEEE standards for OAM (Operation, Administration and Management) expected by large Ethernet network administrators. The new model features Data Analysis, a software feature for performing Channel line rate tests and Round-trip delay tests. Support for 802.1Q Virtual Local Area Network (VLAN) Tagging and 802.1ad Q-in-Q Extra Tagging allows administrators to assign VLAN Tag Ethertypes, so they may route and segregate VLANs with more granularity, and control them to ensure customer traffic from different sources do not mix.

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Multiple gigabit fiber types are available, including Multi-Mode, Single-Mode and Single-Strand Fiber (SSF). SSF can effectively double the capacity of installed fiber and allow the network to utilize precious bundles of fiber and provide connectivity to multiple subscribers. Standard features such as bandwidth scalability and host/remote management over fiber are still available. The company has also redesigned the software to include three Modes of Operation, compared to seven in the previous generation, easing configuration.

B&B Electronics' free SNMP (Simple Network Management Protocol) iView<sup>2</sup> software allows administrators to monitor remote network nodes from a central management host, reducing onsite visits to troubleshoot equipment. Now available as a robust Web-server version, iView<sup>2</sup> is ideal for handling hundreds of modules and multi-users.

Product

details: <http://www.bb-elec.com/Products/Ethernet-Media-Converters/IMC-Networks-FTTX-Products/iMcV-Giga-FiberLinx-III-Media-Converter.aspx> [1]

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