

Abaco's New Fiber Optic Module Improves Data Intelligence Delivery Speeds

Operations at sea and in the air depend on reliable, adaptable hardware to deliver mission-critical intelligence quickly and securely. [Abaco Systems](#), a leader in rugged, mission-critical embedded computing, meets that challenge with the new FMC600 fiber optic module carrier featuring two PAM4 Optical Modules. With up to eight bi-directional channels, the FMC600 enhances real-time situational awareness and supports faster decision-making by rapidly processing and transmitting vast amounts of



data over long distances.

“The rate at which data is processed and moves is key to maintaining a competitive edge,” said [Simon Collins](#), Abaco Director of Product Management. “The FMC600 minimizes delays and improves data analysis performance with maximum security empowering our customers’ response to evolving mission requirements.”

Modern defense missions are growing increasingly reliant on AI-enabled analytics, powered by large volumes of sensor-generated data. As platforms become more connected and data-intensive, system architects are challenged to move information faster than ever before. The FMC600 is an ideal

solution. It meets Abaco's ruggedization standards to ensure reliable performance in the harshest conditions – well suited for deployed defense systems where durability and uptime are mission critical.

The FMC600 is also available with up to two field-proven Samtec FireFly™ optical modules, each with up to four bi-directional channels with a combined 100Gbps of aggregated data per module. This gives developers the ability to migrate to Halo with minimal hardware changes as data needs evolve overtime and provides a clear path for future upgrades and increased bandwidth.

The FMC600 modular design allows system architects to select the best optical configuration for their application, supporting a range of deployment scenarios across aerospace, land and sea platforms.

Discover the full capabilities of the FMC600 and how Abaco Systems is driving the future of computing at [Abaco.com](https://www.abaco.com).

About Abaco Systems

Abaco Systems is a global leader in commercial open architecture computing and rugged embedded electronics. With more than 30 years of experience in aerospace & defense, industrial, energy, medical, communications, and other critical sectors, Abaco's innovative solutions align with open standards to accelerate customer success. Abaco Systems is a business unit of AMETEK, Inc. a leading global provider of industrial technology solutions serving a diverse set of attractive niche markets with annual sales of approximately \$7.5 billion.