

Abaco Introduces FMC300 for Cutting-Edge SDR and EW

[AMETEK Abaco Systems](#) introduces the [FMC300](#) Wideband Low Latency FMC Module, a game-changer in the realm of embedded computing. Tailored for Software Defined Radio (SDR), electronic warfare (EW), digital radar, and test & measurement applications, the FMC300 integrates high-performance Analog-to-Digital Conversion (ADC) and Digital-to-Analog Conversion (DAC) capabilities into a compact form factor based on the VITA 57.4 industry open standard.



AMETEK Abaco Systems FMC300 Wideband Low Latency FMC Module.

Leveraging Analog Devices' AD9082 and AD9081, the FMC300 delivers unmatched performance with multiple channels offering up to 12-bit 6 GSPS RF ADC and up to 16-bit 12 GSPS RF DAC through a JESD204B/C interface. This module is optimized for low-latency, high-sampling rate operations, empowering advanced SDR, EW, and Digital RF Memory (DRFM) systems and boasts an impressive 7GHz of usable analog bandwidth.

When paired with Abaco's state-of-the-art FPGA carrier cards such as the VP891 SOSA-Aligned Xilinx® Virtex™ UltraScale+™

FPGA carrier, the FMC300 gives customers the platform to solve the most difficult challenges when designing modern Digital Signal Processing (DSP) systems.

Simon Collins, Director of Product Management at Abaco Systems, remarked, "The FMC300 empowers customers to overcome the challenges of evolving program requirements with its modular approach based on open standards in support of SOSA. By seamlessly integrating higher performance ADC/DAC capabilities like the FMC300 without the need for a complete redesign, system architects can achieve unparalleled flexibility and efficiency".

The FMC300 ensures optimal performance and adaptability with its flexible control options for clock source, sampling frequency and calibration. Equipped with individual calibration circuits for fine-tuning of gain, offset, and phase, as well as advanced monitoring and power-down modes, this innovative module sets a new standard for embedded computing solutions.

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 over \$7.0 billion.

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