

AXISCADES' subsidiary Mistral Unveils DCP1000 Module based on Lattice CertusPro-NX FPGA

A Cutting-Edge Radar Data Capture and Playback Module for mmWave Radar Applications

21st March 2025, Bengaluru, India: Mistral Solutions Private Ltd, (Mistral) a subsidiary of AXISCADES Technologies Limited (AXISCADES), a chip to product company and a pioneer in Defense, Electronics, Semiconductor and Artificial Intelligent (ESAI) applications, today announced the launch of the **DCP1000 Module**, a compact and user-friendly **Radar Data Capture and Playback Module** designed for real-time mmWave Radar data streaming & Playback together. Based on the award-winning low power Lattice Nexus™ FPGA platform, the DCP1000 delivers high-speed, low-latency data capture with Gigabit Ethernet connectivity and HIL (Hardware-In-Loop) playback functionality. This state-of-the-art module is now available for early samples.

Revolutionizing Radar Data Capture

The DCP1000 module is designed to capture Raw ADC Data from various Texas Instruments' mmWave radar modules over LVDS, enabling seamless real-time data processing. The module efficiently streams the converted data to a host PC via 1Gbps Ethernet, ensuring optimal performance for autonomous systems, industrial automation, and advanced sensing applications. Additionally, 8-bit DMM/Trace interface supports HIL playback, facilitating effective radar data processing, calibration, and testing workflows.



Key Features:

- LVDS interface for raw ADC data capture from TI radar sensors
- DMM/Trace interface for Radar data playback (HIL) & data Processing
- SPI and I2C serial interfaces for configuration and control
- QT-based GUI for Host PC to configure, capture, and visualize data
- DCP1000 Module seamlessly integrated with TI's mmWave Studio for Raw Data capture and post-processing
- Module based on Lattice CertusPro™-NX FPGA with up to 100K logic cells
- 2GB LPDDR4 memory
- 1Gbps Ethernet with RJ45 port for high-speed data transfer

Optimized Software for Seamless Radar Processing

The DCP1000 module comes with a comprehensive software suite, including a QT-based Host PC application for configuring, capturing, and visualizing radar data. The module supports firmware upgrades, advanced signal processing, and real-time visualization to enhance the radar development experience.

“The DCP1000 is a game-changer for mmWave Radar system developers, redefining Radar data processing with cutting-edge technology, high-speed streaming & Playback. With real-time data capture, playback, and seamless integration with TI’s mmWave Radar platforms, it significantly accelerates the development and validation of Radar-based applications said Muralikrishnan D, CEO Mistral Solutions. “At Mistral, innovation drives us, and this product signifies our deep expertise in Radar technologies and strategic partnerships with Lattice Semiconductor and Texas Instruments,” he added.

“At Lattice, we are dedicated to driving innovation in industrial automation through our advanced low power FPGA solutions with best-in-class connectivity features,” said Jerry Xu, President of APAC at Lattice Semiconductor. “We look forward to our collaboration with Mistral Solutions enhancing real-time radar data processing and seamless module integration, accelerating innovation for our customers.”

Availability and Pricing

The DCP1000 Module is available for early samples starting today. The product is priced at **\$649** and can be ordered through the [Mistral Webstore](#). The official ordering lead time for the module is **6 to 7 weeks**.

For more information, visit <https://www.mistralsolutions.com/dcp1000>

Or write to info@mistralsolutions.com.

About AXISCADES Technologies Limited

AXISCADES is a leading, end-to-end technology, product and solutions provider aiding the creation of innovative, sustainable, and safer products worldwide in the Aerospace, Defense and ESAI domains. Headquartered in Bangalore with subsidiaries and offices worldwide, in France, Germany, Denmark, USA, and Canada. AXISCADES has a diverse team of over 3000+ professionals working across 15 locations across globe, striving to reduce the program risk and time to market.

The comprehensive portfolio of solutions covers the complete product development lifecycle from concept evaluation to manufacturing support and certification. More: www.axiscades.com

About Mistral Solutions Pvt. Ltd – A Chip to Product Company

Mistral Solutions, a subsidiary of AXISCADES, is a chip-to-product company that delivers AI-enabled products to the defense, semiconductor, automotive, healthcare, industrial, consumer, and hyperscaler sectors. With 28 years of experience, Mistral is one of India’s leading embedded systems service providers, offering an end-to-end portfolio of solutions to address the growing demand for reliable and intelligent devices, fostering innovation and

driving business transformation. Its semiconductor solutions include platforms for post-silicon validation, evaluation boards, sensor integration, custom platforms, and applications. Mistral has strong partnerships with leading semiconductor OEMs across a broad range of applications. Mistral Solutions Pvt. Ltd. is headquartered in Bengaluru, India, and has multiple locations worldwide. To learn more, visit www.mistralsolutions.com.

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