



NEWS RELEASE

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Curtiss-Wright Debuts its Highest Performance GPU Module for Graphics, Video Processing, and AI/ML at the Tactical Edge

PacStar 454 NVIDIA GPU Enhanced Server Module combines Intel Xeon D 12-Core processor, NVIDIA Quadro RTX5000 GPU and up to 8 TB of NVMe storage

ASHBURN, Va. – October 6, 2021 – [Curtiss-Wright's Defense Solutions division](#) today announced that its [PacStar®](#) business, a leading developer and supplier of advanced communications solutions for the U.S. Department of Defense (DoD), has introduced its highest performance PacStar 400-Series small communications module. The new [PacStar 454 NVIDIA GPU Enhanced Server Module](#) is designed for demanding graphics, video and artificial intelligence (AI) and machine learning (ML) applications at the edge of the tactical battlefield. Measuring only 5.3" x 7.1" x 5.5" and weighing only 6.4 lbs., the compact PacStar 454 utilizes a modular open system approach (MOSA) to deliver extremely high CPU and GPGPU performance in a rugged package. Compatible with existing PacStar 400-Series modules, chassis, and accessories, the PacStar 454 combines a 12-core Intel 6th generation Xeon D processor and an NVIDIA Quadro RTX5000 GPU with 3072 CUDA cores, 48 RT cores, and 384 Tensor cores (9.4 TFLOPS FP32 peak performance). The module's CPU is supported with 128 GB RAM, and it provides up to 8 TB of high-speed NVMe storage. I/O includes 10 GigE SFP+ ports. The PacStar 454 is ideal for tactical, expeditionary vehicle-mount, forward operating base, and early-entry deployments for military, Homeland Security, first responders, and commercial/enterprise users.

"To support the new sensor and data driven capabilities envisioned for the DoD's emerging JADC2 and ABMS networked battlefield, system designers need to field as much compute power as possible, in a package rugged enough to perform optimally in harsh conditions, while small and lightweight enough to enable mobility," said Chris Wiltsey, Senior Vice President and General Manager, Curtiss-Wright Defense Solutions division. "The new PacStar 454 module, our highest performance compact GPU module yet, reflects our commitment to lead the industry in delivering cutting-edge CPU and GPU technology for remote and distributed locations."

"The new PacStar 454 GPU module gives our customers a distinct edge on the battlefield," said Peggy Miller, Senior General Manager, PacStar Business Unit, Curtiss-Wright Defense Solutions division. "With its extensive AI and graphics processing

abilities at the edge, the PacStar 454 sets a new standard for deployed size, weight and power optimized high performance computing."

The PacStar 454 provides an optimal platform for tactical and distributed deployment of computer-intensive video and AI applications including:

- Video: encoding, decoding, transcoding, analytics, object detection
- Natural language understanding and translation
- Cybersecurity: threat analytics, vulnerability detection, and defensive adversarial ML
- Sensor fusion, health monitoring, EW signal processing, augmented reality
- Autonomous systems operations, navigation, predictive maintenance
- Decision support
- Virtual desktop infrastructure

The PacStar 454's broad range of software options includes technologies from Aruba Networks, Cisco, Digital Barriers, Kinetica, VMware, and more.

About the PacStar 400-Series

PacStar 454 is part of the PacStar 400-Series family of small communications modules and is utilized in the industry-leading PacStar Modular Data Center solution. PacStar 400-Series products include routing, switching, and advanced network services with built-in configuration flexibility and robust power options for austere environments. These solutions are driven by PacStar IQ-Core® Software to simplify setup and operation. Curtiss-Wright's PacStar business offers a wide array of system packaging options for PacStar 400-Series, including briefcase, transit case, rack mount, vehicle mount, and backpack transport.

Curtiss-Wright's PacStar products are manufactured in its facility in Portland, Oregon.

For more information about PacStar, visit [our site](#).

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About PacStar's Family of Leading Battlefield Solutions

PacStar's industry-leading family of advanced communications solutions addresses a wide range of military, intelligence and commercial applications. PacStar creates and manufactures COTS-based rugged, small form factor expeditionary and mobile communications systems. Separately, it developed integrated, network communications management software, IQ-Core Software, for the military, federal, state/local government and emergency responder markets. The company's patented IQ-Core Software, hardware technology, and integrated solutions provide secure, command, control and communications systems, particularly in remote or infrastructure starved areas. In addition, PacStar's communications systems are ideally suited for commercial/industrial organizations with mission-critical field communications requirements. For additional information, please visit <https://pacstar.com>, [LinkedIn](#), and Twitter [@pacstarcomm](#).

About Curtiss-Wright Corporation

Curtiss-Wright Corporation (NYSE:CW) is a global innovative company that delivers highly engineered, critical function products and services to the Aerospace and Defense markets, and to the Commercial markets including Power, Process and General

Industrial. Building on the heritage of Glenn Curtiss and the Wright brothers, Curtiss-Wright has a long tradition of providing reliable solutions through trusted customer relationships. The company employs approximately 8,200 people worldwide. For more information, visit www.curtisswright.com.

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