

NEWS RELEASE



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CONTACT: John Wranovics
Curtiss-Wright Controls Embedded Computing
(925) 640-6402 mobile
jwranovics@curtisswright.com

Curtiss-Wright Debuts New High Resolution Radar Scan Converter PMC Card

Eagle-2 supports radar display for high-resolution radar consoles including 2k x 2k large display applications

Cambridge, UK – Curtiss-Wright Controls Embedded Computing, a leading designer and manufacturer of rugged deployed commercial off-the-shelf (COTS) PMC, VME, PCI, VPX and CompactPCI products for the Aerospace and Defense market, has announced the Eagle-2, a new high-resolution radar video scan-converter card. This compact PMC mezzanine module delivers enhanced scan conversion performance and support for high-resolution screen displays and eases the integration of advanced radar scan conversion functionality into VME, VPX and CompactPCI and PC-based systems. The Eagle-2 supports the simultaneous scan-conversion of multiple radar sources into PPI, A-Scan, or B-Scan formats at display resolutions up to 2560 x 1600, including 2048 x 2048 to address the growing demand for large-screen displays.

“The Eagle-2 is the latest addition to our broad family of advanced radar and video products,” said Alan McCormick, managing director, Curtiss-Wright Controls Embedded Computing, radar and video group. “Used with our Osiris radar input card or our network-based RVP radar video server, the Eagle-2 is an ideal building block for integrating high performance embedded radar display systems.”

Eagle-2 delivers field-proven, high performance radar scan conversion based on the industry leading White-Powell algorithm. The card supports both forward and reverse scan-conversion to ensure that all single point targets are displayed and that no holes or spokes appear in the displayed image, even when zooming-in at long range. In addition to support for high-resolution radar display applications, the Eagle-2 also delivers far superior scan-conversion performance compared to the previous generation Eagle card, with an approximate 3 times “like-for-like” performance improvement.

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To enable multi-layer radar displays, Eagle-2 also supports the input of single and dual-link DVI graphics signals that can be digitally mixed with the scan-converted radar data. To provide the optimal visual data to the console operator the card can overlay, or underlay graphics with the radar scan data. For example, target symbols may be presented as overlays and maps presented as underlays.

Eagle-2 Performance Features

- Supports rotation rates of 90rpm at 2048 x 2048 display resolution
- Field-proven White-Powell scan-conversion algorithms
- Simultaneous scan-conversion of multiple radar sources
- Multiple radar display windows
- PPI, A-Scan and B-Scan display formats
- Supports sector-scan, random-scan and reverse-scan inputs
- Integrated digital video keying of radar with graphics
- Single-link or dual-link DVI input
- Supports graphics video input at resolutions up to 2560 x 1600 (including 2048 x 2048)
- Single-link or dual-link DVI or analog RGB video output
- Available in air-cooled L0 and L100 ruggedization levels
- Radar data transfer over PCI-X bus from local (Osiris radar input card) or networked (RVP) radar source

Software Support

Software support for the Eagle-2 includes Curtiss-Wright's new RVL+, a common API for its radar and video product range that reduces system integration timescales when using multiple radar / video modules. Operating system support includes Linux/x86. For more information, please contact the factory.

For software compatibility with existing Eagle installations, the Eagle-2 also supports Curtiss-Wright's PARIS API.

Ruggedization

Eagle-2 is available in both air-cooled L0 and L100 ruggedization levels.

Pricing for the Eagle-2 starts starts at \$10,200. High-resolution (up to 2560x1600/2048x2048) and standard resolution (up to 1920 x 1200) versions of Eagle-2 are available.

Sales inquiries: Please forward all Sales and reader service inquiries to Jerri-Lynne Charbonneau, Curtiss-Wright Controls Embedded Computing, Tel: (613) 254-5112; Fax: (613) 599-7777; e-mail: sales@cwembedded.com.

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For editorial information regarding Curtiss-Wright Controls Embedded Computing products or services, contact John Wranovics, Director of Public Relations, Curtiss-Wright, Tel: (925) 640-6402; email. jwranovics@curtisswright.com. Web site: www.cwcembedded.com.

About Curtiss-Wright Controls Embedded Computing

Curtiss-Wright Controls Embedded Computing is the industry's most comprehensive and experienced single source for embedded solutions, ranging from Processing, Subsystems, Data Communication, DSP, and Video & Graphics to the most advanced board level components and fully integrated custom systems. The Embedded Computing group serves the defense, aerospace, commercial and industrial markets and is part of Curtiss-Wright Controls Inc. For more information about Curtiss-Wright visit www.cwcembedded.com.

About Curtiss-Wright Controls, Inc.

Headquartered in Charlotte, North Carolina, Curtiss-Wright Controls is the motion control segment of Curtiss-Wright Corporation (NYSE: CW). With manufacturing facilities around the world, Curtiss-Wright Controls is a leading technology-based organization providing niche motion control products, subsystems and services internationally for the aerospace and defense markets. For more information, visit www.cwcontrols.com.

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