DARC™ VX108 VPX-BASED RUGGED COMPUTER

- Rugged extended temperature, IP66 sealed system
- Small form factor 272 mm x 201 mm x 120 mm
- Xeon® D Octo Core 64-bit SoC with 16 GB soldered DDR4 with ECC
- 2x 10 GbE LAN ports for high bandwidth operations
- XMC Expansion slot and M.2 socket
The Kontron DARC™ VX108 is a very high performance embedded computing platform based on VPX technology designed for tough SWaP constrained missions.

The combination of its sealed IP66 compact enclosure and power-to-performance optimization make the Kontron DARC™ VX108 ideally suited for typical military applications requiring high performance, reduced size-weight-power in an environmentally ruggedized platform like CSIR (Command/Control, Electronic warfare, Electro-Optical Infrared Sensor Processing) or Vetronics (Vehicle Management, Crew Controls and Displays, Mission computing, Video processing, image fusion, 360° awareness, Tracking).

Based on Intel’s® Xeon-D® Octo Core™ server class processor, the DARC™ VX108 combines dense processing and I/O connectivity. Its two 10 GbE ports make the DARC™ VX108 ideal for radars or any other applications requiring high bandwidth to handle and transmit large amount of data.

Networked video streaming and processing, such as image fusion, are also possible through optional GPU hardware acceleration for real-time situational awareness. Multiple expansion slots allow customization of the platform interfaces, making the Kontron DARC™ VX108 configurable for various customer needs.

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**PRODUCT OVERVIEW**

**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>PROCESSOR</th>
<th>Intel® Xeon® D Octo Core™</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYSTEM MEMORY</td>
<td>System Memory</td>
</tr>
<tr>
<td>POWER SUPPLY</td>
<td>Ethernet</td>
</tr>
<tr>
<td>EXTENSIONS</td>
<td>M.2 socket H4.2 for 2242-D5-M or 2260-D5-M or 2280-D5-M modules</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>Less than 7 kg (depending on configuration)</td>
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<tr>
<td>OPTIONS</td>
<td>Isolated Dual CAN</td>
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<tr>
<td></td>
<td>Display</td>
</tr>
<tr>
<td></td>
<td>IP66 with military D38999 circular locking connectors</td>
</tr>
</tbody>
</table>

**ORDERING INFORMATION**

<table>
<thead>
<tr>
<th>ARTICLE</th>
<th>DESCRIPTION</th>
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</thead>
<tbody>
<tr>
<td>DARC-VX108-A</td>
<td>Fanless Defense Computer, Wide Range +18 VDC to +36 VDC power supply, Intel® Xeon® D Octo Core™ D-1539, 16 GB DDR4 with ECC, 2 x 10 Gigabit Ethernet, 1 x Gigabit Ethernet, 1 x 10/100/1000 Ethernet.</td>
</tr>
</tbody>
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