AMC 24-channel Isolated (5V, 10V) Output Module – AMC098

**KEY FEATURES**

- 24-channel isolated output
- Single module, compact size (mid-size and full-size available)
- Front panel I/O connectivity in a compact size AMC compliant form factor
- Input voltage from 10V to 38V with 45V surge @ 500 ms
- Interrupt levels are user selectable
- AMC.1 compliant
- IPMI 2.0 compliant
- RoHS compliant

**Benefits of Choosing VadaTech**

- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house
- Full ecosystem of front and rear boards, enclosures, specialty modules, and test/dev products from one source
- AS9100 and ISO9001 certified company

The AMC098 is a single module, compact size (mid-size and full-size options are available) AdvancedMC™ (AMC) 24-Channel Isolated Output board.

The outputs are divided into two categories. The isolated output voltage is used to drive 12 Ports at 5V and another set of 12 Ports at 10V.

Each output channel is independent and is processed separately, so activity on one channel has no effect on other channels. A key feature of the AMC098 is the capability to have multiple outputs change state with a single atomic-write transaction.

See [Super Carrier](#) for high-density processing platforms compatible with this product.
INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTM), Power Modules, and more. The company also offers integration services as well as pre-configured Application-Ready Platforms. Please contact VadaTech Sales for more information.

BLOCK DIAGRAM

![Block Diagram](image-url)

Figure 1: Block Diagram

FRONT PANEL

![Front Panel](image-url)

Figure 2: Front Panel
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>Architecture</th>
<th>Physical Dimensions</th>
<th>Width: 2.89” (73.5 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Depth: 7.11” (180.6 mm)</td>
<td></td>
</tr>
<tr>
<td>Types</td>
<td>AMC Input</td>
<td>24 optically isolated outputs: Twelve outputs at 5V and twelve outputs at 10V. Multiple outputs will change state with a single write.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standards</th>
<th>AMC Type</th>
<th>AMC.0 and AMC.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Management</td>
<td>IPMI</td>
<td>IPMI v2.0</td>
</tr>
<tr>
<td>PCIe</td>
<td>Lanes</td>
<td>x4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Power AMC098</th>
<th>3W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>Operating temperature: -5°C to 45°C (55°C for limited time, performance restrictions may apply), (See <a href="https://example.com/environmental-spec-sheet">environmental spec sheet</a>)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage Temperature: -40°C to +85°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Vibration Operating 9.8 m/s² (1G), 5 to 500 Hz on each axis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Shock Operating 300Gs each axis</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Relative Humidity 5 to 95% non-condensing</td>
<td></td>
</tr>
<tr>
<td>Front Panel</td>
<td>Interface Connectors 51-pin Micro DIN connector</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LEDs IPMI management control</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Activity/Link/Status LEDs</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mechanical Hot-swap ejector handle</td>
<td></td>
</tr>
<tr>
<td>Software Support</td>
<td>Operating System Independent</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other</th>
<th>MTBF</th>
<th>MIL Hand book 217-F@ 251,000 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications, where applicable</td>
</tr>
<tr>
<td></td>
<td>Standards</td>
<td>VadaTech is certified to both the ISO9001:2015 and AS9100D standards</td>
</tr>
<tr>
<td>Warranty</td>
<td>Two (2) years, see <a href="https://example.com/terms-and-conditions">VadaTech Terms and Conditions</a></td>
<td></td>
</tr>
<tr>
<td>Trademarks and Disclaimer</td>
<td>The VadaTech logo is a registered trademark of VadaTech, Inc. Other registered trademarks are the property of their respective owners. AdvancedTCA™ and the AdvancedMC™ logo are trademarks of the PCI Industrial Computers Manufacturers Group. All rights reserved. Specification subject to change without notice</td>
<td></td>
</tr>
</tbody>
</table>
AMC 24-channel Isolated (5V, 10V) Output Module – AMC098

ORDERING OPTIONS

AMC098 – 00C – 000 – 00J

C = Front Panel
1 = Reserved
2 = Mid-size
3 = Full-size
4 = Reserved
5 = Mid-size, MTCA.1 (captive screw)
6 = Full-size, MTCA.1 (captive screw)

J = Temperature Range and Coating
0 = Commercial, No coating
1 = Commercial, Humiseal 1A33 Polyurethane
2 = Commercial, Humiseal 1B31 Acrylic
3 = Industrial, No coating
4 = Industrial, Humiseal 1A33 Polyurethane
5 = Industrial, Humiseal 1B31 Acrylic
6 = Extended, Humiseal 1A33 Polyurethane*
7 = Extended, Humiseal 1B31 Acrylic*

Notes:
*Conduction cooled; temperature is at edge of module. Consult factory for availability.

RELATED PRODUCTS

UTC008
JTAG Switch Module (JSM)

VT866 5U
Chassis Platform

UTC004
MicroTCA Carrier Hub (MCH)

CONTACT US

VadaTech Corporate Office
198 N. Gibson Road,
Henderson, NV 89014
Email: info@vadatech.com
Telephone: +1 702 896-3337
Fax: +1 702 896-0332

Asia Pacific Sales Office
7 Floor, No. 2, Wenhu Street, Neihu District,
Taipei 114, Taiwan
Email: info@vadatech.com
Telephone: +886-2-2627-7655
Fax: +886-2-2627-7792

VadaTech European Sales Office
VadaTech House, Bulls Copse Road,
Southampton, SO40 9LR
Email: info@vadatech.com
Telephone: +44 2380 016403