AMC350
Quad HDMI/DVI H.264 Encoder

Key Features
- Quad H.264 Encoder with HDMI digital video input
- Dynamic pan and zoom/crop
- Encodes H.264, MPEG-4 and H.263 up to Full-HD
- 1920x1080 @ 60 Frame Per Second (FPS)
- Encoded data is available via the PCIe or GbE

Benefits
- Compact multi-channel design
- Flexible choice of data routing, base interface or PCIe fabric
- Electrical, mechanical, software, and system-level expertise in house
- Full system supply from industry leader
- AS9100 and ISO9001 certified company
AMC350

The AMC350 is an AMC form factor module with quad HDMI input. The module video encode engine can perform H.264, MPEG-4, and H.263 encoding up to Full-HD 1920x1080 @ 60 FPS resolution.

Encoding is compatible with the ITU-T recommended H.264 specification. Minimum encoding image size is 96 pixels in horizontal and 16 pixels in vertical. The encoder rate control is designed for low low-delay and long-delay as well as macro block-level rate control to frame-level rate control.

The MPEG4-SP encoder is compatible with the ISO/IEC 14496-2 specification. The encoded data is available via PCIe and/or GbE.

See Super Carrier for high-density processing platforms compatible with this product.

Figure 1: AMC350
## Block Diagram

![Block Diagram of AMC350](image)

*Figure 2: AMC350 Functional Block Diagram*

## Front Panel

![Front Panel of AMC350](image)

*Figure 3: AMC350 Front Panel*
## Specifications

### Architecture

<table>
<thead>
<tr>
<th>Physical</th>
<th>Dimensions</th>
<th>Single module, mid-size (full-size optional)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Width: 2.89&quot; (73.5 mm)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Depth: 7.11&quot; (180.6 mm)</td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>Video Encoder</td>
<td>H.264, MPEG-4 and H.263</td>
</tr>
<tr>
<td></td>
<td>Video Resolution</td>
<td>Full-HD 1920x1080 @ 60 FPS</td>
</tr>
</tbody>
</table>

### Standards

<table>
<thead>
<tr>
<th>AMC Type</th>
<th>AMC.0, AMC.1 and AMC.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Module Management</td>
<td>IPMI v2.0</td>
</tr>
<tr>
<td>PCIe Lanes</td>
<td>x4</td>
</tr>
</tbody>
</table>

### Configuration

<table>
<thead>
<tr>
<th>Power</th>
<th>AMC350 9W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>Temperature</td>
</tr>
<tr>
<td></td>
<td>Storage Temperature: −40°C to +85°C</td>
</tr>
<tr>
<td></td>
<td>Vibration</td>
</tr>
<tr>
<td></td>
<td>Shock</td>
</tr>
<tr>
<td></td>
<td>Relative Humidity</td>
</tr>
<tr>
<td>Front Panel</td>
<td>Interface Connectors</td>
</tr>
<tr>
<td></td>
<td>LEDs</td>
</tr>
<tr>
<td></td>
<td>Mechanical</td>
</tr>
</tbody>
</table>

### Software Support

| Operating System | Linux and Windows |

### Other

<table>
<thead>
<tr>
<th>MTBF</th>
<th>MIL Hand book 217-F@ TBD hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Certifications</td>
<td>Designed to meet FCC, CE and UL certifications, where applicable</td>
</tr>
<tr>
<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 VadaTech Terms and Conditions</td>
</tr>
</tbody>
</table>

### INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of OpenVPX, ATCA and MTCA products including chassis platforms, shelf managers, AMC modules, Switch and Payload Boards, Rear Transition Modules (RTMs), 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.
Ordering Options

AMC350 – A0C-000-00J

<table>
<thead>
<tr>
<th>A = Interface</th>
<th>J = Temperature Range and Coating</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 = PCIe and GbE</td>
<td>0 = Commercial, No coating</td>
</tr>
<tr>
<td>1 = PCIe only</td>
<td>1 = Commercial, Humiseal 1A33 polyurethane</td>
</tr>
<tr>
<td>2 = GbE only</td>
<td>2 = Commercial, Humiseal 1B31 acrylic</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C = Front Panel</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 = Reserved</td>
<td>0 = Industrial, No coating</td>
</tr>
<tr>
<td>2 = Mid-size</td>
<td>1 = Industrial, Humiseal 1A33 polyurethane</td>
</tr>
<tr>
<td>3 = Full-size</td>
<td>2 = Industrial, Humiseal 1B31 acrylic</td>
</tr>
</tbody>
</table>

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

Related Products

UTC004
- Single module, full size per AMC.0
- Unified 1 GHz quad-core CPU for MicroTCA Carrier Management Controller (MCMC), Shelf Manager, Clocking, and Fabric management
- Automatic fail-over with redundant UTC004s

AMC726
- Intel® 4th Gen Core i7-4700EQ with QM87 chipset
- PCIe Gen3 x4 on Ports 4-7 and 8-11 or single PCIe x8 on Ports 4-11 (AMC.1)
- Serial over LAN

AMC347
- Dual RGsB Input
- Dual Video outputs capable of driving up to 110 feet over Coax
- Dual Display Port (DP) input
Choose VadaTech

We are technology leaders
• First-to-market silicon
• Constant innovation
• Open systems expertise

We commit to our customers
• Partnerships power innovation
• Collaborative approach
• Mutual success

We deliver complexity
• Complete signal chain
• System management
• Configurable solutions

We manufacture in-house
• Agile production
• Accelerated deployment
• AS9100 accredited

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