

AMC351

Quad DP H.264 Encoder



AMC351

Key Features

- Quad H.264 Encoder with DP 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



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AdvancedMC™



AMC351

The AMC351 is an AMC form factor module with quad DP 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: AMC351

Block Diagram

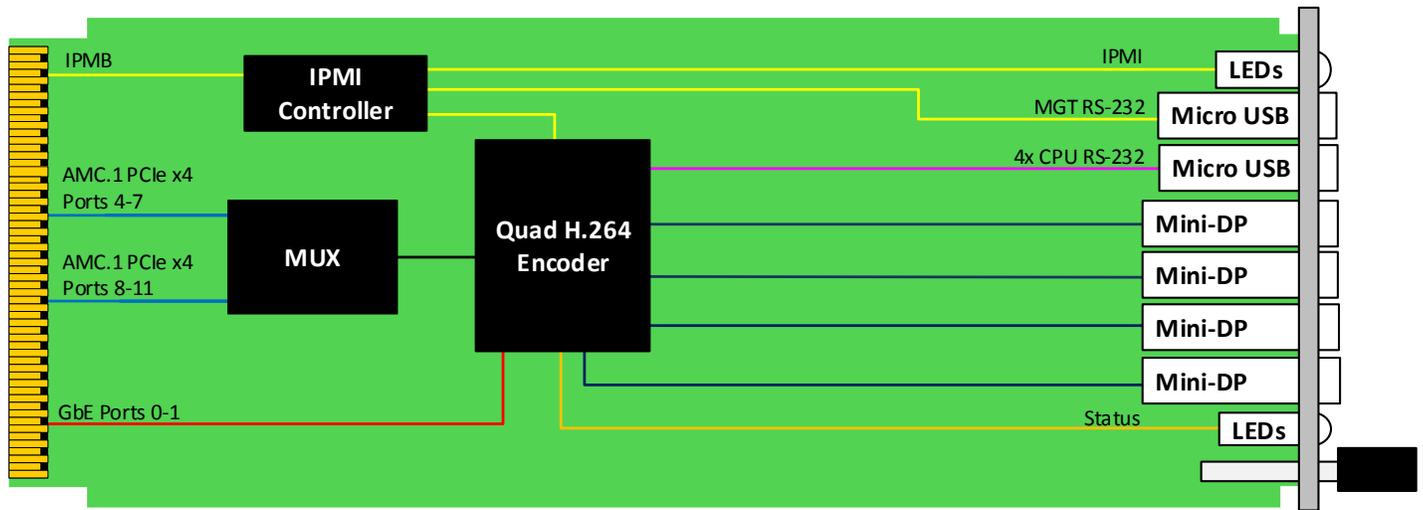


Figure 2: AMC351 Functional Block Diagram

Front Panel

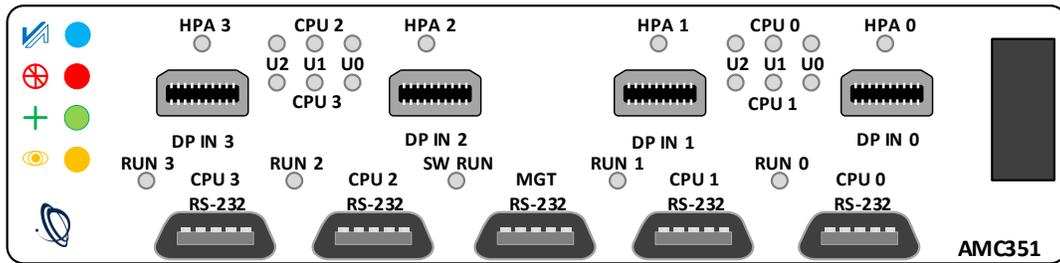


Figure 3: AMC351 Front Panel

Specifications

Architecture	
Physical	Dimensions Single module, mid-size (full-size optional) Width: 2.89" (73.5 mm) Depth 7.11" (180.6 mm)
Type	Video Encoder H.264, MPEG-4 and H.263 Video Resolution Full-HD 1920x1080 @ 60 FPS
Standards	
AMC	Type AMC.0, AMC.1 and AMC.2
Module Management	IPMI IPMI v2.0
PCIe	Lanes x4
Configuration	
Power	AMC351 9W
Environmental	Temperature See Ordering Options and Environmental Spec Sheet Storage Temperature: -40° to +85°C Vibration Operating 9.8 m/s ² (1G), 5 to 500 Hz on each axis Shock Operating 30G on each axis Relative Humidity 5 to 95% non-condensing
Front Panel	Interface Connectors Quad mini DP connectors Dual micro USB for RS-232 (management and payload) LEDs IPMI management control Mechanical Hot-swap ejector handle
Software Support	Operating System Linux and Windows
Other	
MTBF	MIL Hand book 217-F@ TBD hrs
Certifications	Designed to meet FCC, CE and UL certifications, where applicable
Standards	VadaTech is certified to both the ISO9001:2015 and AS9100D standards
Warranty	Two (2) years, see VadaTech Terms and Conditions

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

AMC351 – A0C-000-00J

A = Interface		
0 = PCIe and GbE 1 = PCIe only 2 = GbE only		
C = Front Panel		
1 = Reserved 2 = Mid-size 3 = Full-size		
		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

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

Contact

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