AMC351

Quad DP H.264 Encoder

Key Features

- Quad H.264 Encoder
- DP digital video input
- 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
- Design utilizes proven VadaTech subcomponents and engineering techniques
- Electrical, mechanical, software, and system-level expertise in house

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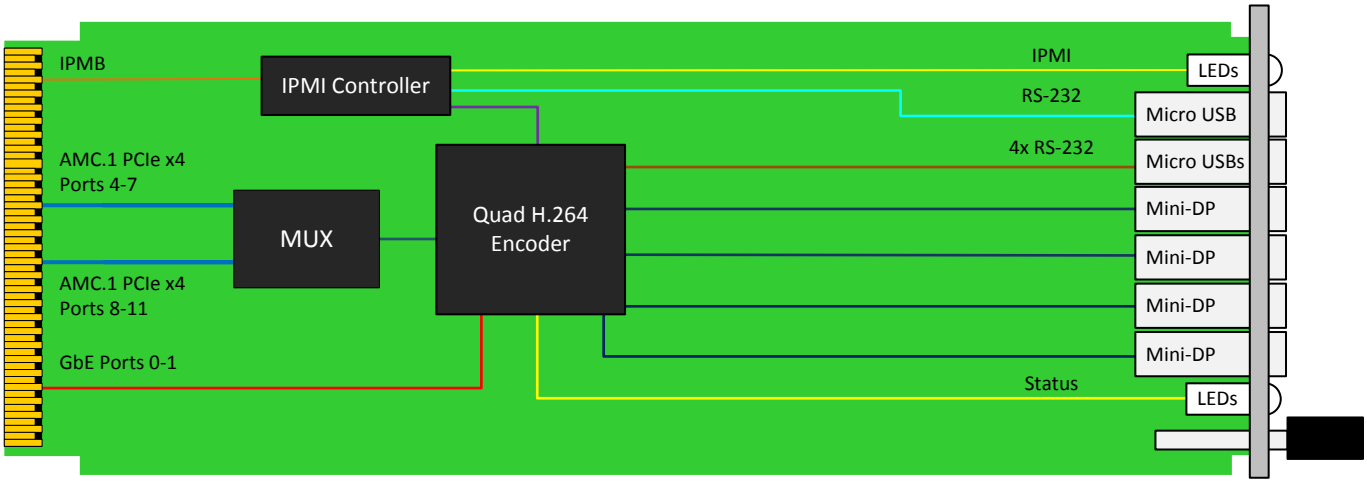
The AMC351 is an AMC form factor module with quad DP input. The module video encode engine can perform H.264, MPEG-4, and H.263 encoding up to Full-HD 1920x1080 @ 60 FPS resolution.

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.

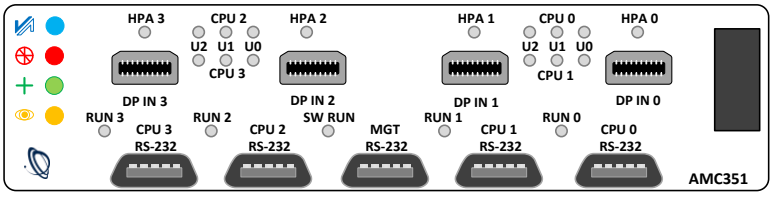
The MPEG4-SP encoder is compatible with the ISO/IEC 14496-2 specification.

The encoded data is available via PCIe and/or GbE.

Block Diagram



Front Panel



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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 version 2.0
PCIe	**Lanes**	x4
Configuration		
Power	**AMC351**	9W
Environmental	**Temperature**	Operating temperature: -5° to 45° C (55°C for limited time, performance restrictions may apply), industrial and military versions also available (See environmental spec sheet)
		Storage Temperature: –40° to +85°C
	Vibration	Operating 9.8 m/s^2 (1G), 5 to 500Hz on each axis
	Shock	Operating 30G on each axis
	Relative Humidity	5 to 95 per cent, 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
Conformal Coating		Humiseal 1A33 Polyurethane (Optional)
		Humiseal 1B31 Acrylic (Optional)
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 ISO9001:2000 and AS9100B:2004 standards	
Warranty	Two (2) years	

INTEGRATION SERVICES AND APPLICATION-READY PLATFORMS

VadaTech has a full ecosystem of ATCA and µTCA 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.

Trademarks and Disclaimer

Ordering Options

AMC351 – A0C-000-00J

A = Interface		
0 = PCIe and GbE 1 = PCIe only 2 = GbE only		
C = Front Panel		**J = Temperature Range and Coating**
1 = Reserved 2 = Mid-size 3 = Full-size		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*

*Conduction cooled, temperature is at edge of module. Consult factory for availability

Related Products

UTC004

- Single module, full size per AMC.0
- Unified 1GHz quad-core CPU for MCMC (MicroTCA Carrier Management Controller), 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

Contact

VadaTech Corporate Office

198 N. Gibson Road, Henderson, NV 89014
Phone: +1 702 896-3337 | Fax: +1 702 896-0332

Asia Pacific Sales Office

7 Floor, No. 2, Wenhu Street, Neihu District, Taipei 114, Taiwan
Phone: +886-2-2627-7655 | Fax: +886-2-2627-7792

VadaTech European Sales Office

VadaTech House, Bulls Copse Road, Southampton, SO40 9LR
Phone: +44 2380 016403

info@vadatech.com | www.vadatech.com

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