

BM264 Series

H.264/MPEG-4/AVC HD & SD Encoder

BM264 is the REAL TIME H.264/AVC encoders for both HD/SD digital and analog video audio signals with the optimized compression technology at the low cost.

This real-time encoder offers the customers most demanding resolutions while keeping the bit rates low with leading edge encoding technology.

Built-in the digital frame synchronizer & TBC to protect the input signals and allow output stable transport streams.

BM264 series encoders bring the customers more benefits for IPTV, broadcasting cable TV system, content storage, news gathering, signals' streaming & transmission and backhaul encoding markets' requirements, including broadcast, VOD, corporate, education, hospitality, healthcare, transportation, venues and construction.



FEATURES

- Real Time encoding at H.264/AVC compression format
- Supports H.264 High Profile @ Level 4 for HD encoding and Main Profile @ Level 3 for SD encoding
- MPEG-1 Layer II @ 48kHz sample rate
- Supports HD video resolutions @ 1080p/60/59.94/50/24Hz, 1080i/60/59.94/50/24Hz, 720p/60/59.94/50
- Supports SD NTSC 480i and PAL 576i video format
- Compatible with the digital and analog video audio signals for both HD & SD format, including HD/SD-SDI digital or digital embedded signals, HD analog YPbPr signals, SD analog composite signals, and analog audio signals
- Provides 1000M IP stream transmission output, supports the protocols of multicast, webcast and unicast
- Built-in high quality HD/SD digital frame synchronizer to protect the input signals stable
- Supports VBR and CBR streams encoding
- Provides ASI output for the digital HD/SD-SDI models as the additional option
- Provides Forward Error Correction SMPTE 2022M Pro-MPEG FEC feature as the additional option
- Full features integrated with the management tools
- Very flexible and friendly modules for MINI chassis and 3U rack mountable chassis



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SPECIFICATIONS

Video Encoding Format

HD Video Compression: H.264 MPEG-4 / AVC HP@L4

SD Video Compression: H.264 MPEG-4 / AVC MP@L3

Resolutions: 1920x1080p, 1920x1080i, 1280x720p, 720x576i, 720x480i

Frame Rates: 24 (1080p / 1080i), 25 (1080p / 1080i), 29.97 (1080p / 1080i), 50 (1080p / 1080i / 720p / 576i / 480i),
59.94 (1080p / 1080i / 720p / 576i / 480i)

Video Bitrate: 700kbps to 20 Mbps, CBR or VBR, 4Mbps or up recommended for HD video compressed

Audio Encoding Format

MPEG-1 Layer II @ 48 kHz Stereo

Video Inputs

HDMI HD/SD Video / Audio Signal Input

HD/ SD-SDI (1xBNC)

HD/SD YPbPr Component Video (3xBNCs)

SD Composite Video (1xBNC)



Audio Inputs

HDMI Embedded Audio

HD/SD-SDI Embedded Audio

Analog Balance Audio (2 x Coaxial)

Outputs

1000M TS over UDP/IP (RJ-45 Copper)

ASI Output (1xBNC) (Option)

Management Remote Control

100M Ethernet Management @ RJ-45.

Full features integrated with the management tools

Environmental Conditions

Input Voltage:

DC 9 ~ 24 Volt & 110 / 240 VAC 50/60Hz

Operating Temperature: 0°C to 40°C (32°F to 104°F)

Storage Temperature: -20°C to 70°C (-4°F to 158°F)

Relative Humidity: 5% to 95%

Compliance

FCC CFR47 Part 15 Class A or B

CE marked with EN60065:2002+A11:2008

UL marked with 60950-1

All features and specifications are subject to change without notice.

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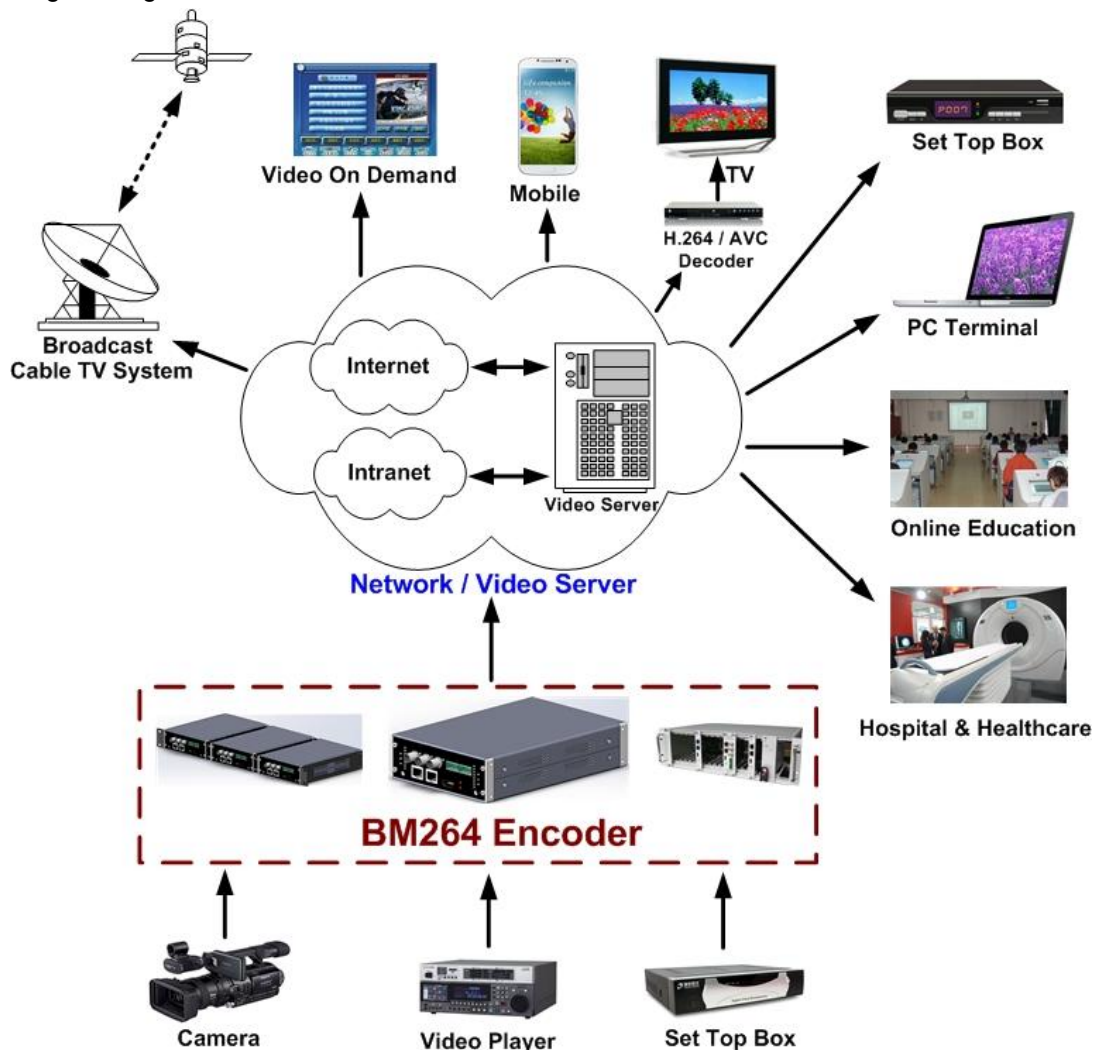


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APPLICATIONS

- ✓ IPTV Signals streaming & transmission
- ✓ Broadcasting cable TV system
- ✓ Content storage & video server system
- ✓ Backhaul encoding
- ✓ Education & hospitality
- ✓ News gathering



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CHOOSE YOUR RIGHT ENCODER

		BM264-HD/P-D	BM264-HD/P-A	BM264-HD/P-H	BM264-HD/I-D	BM264-HD/I-A	BM264-HD/I-H	BM264-SD-D	BM264-SD-A	BM264-SD-H
ENCODING	HD 1080P	✓	✓	✓						
	HD 1080i	✓	✓	✓	✓	✓	✓			
	HD 720P	✓	✓	✓	✓	✓	✓			
	SD 576i / 480i	✓	✓	✓	✓	✓	✓	✓	✓	✓
VIDEO INPUTS	HDMI	✓	✓	✓	✓	✓	✓	✓	✓	✓
	HD-SDI / 3G	✓								
	HD-SDI	✓			✓					
	SD-SDI	✓			✓			✓		
	COMPONENT		✓			✓			✓	
	COMPOSITE								✓	
AUDIO INPUTS	HDMI Embedded Audio	✓	✓	✓	✓	✓	✓	✓	✓	✓
	SDI Embedded Audio	✓			✓			✓		
	Balanced Stereo Audio	✓	✓		✓	✓		✓	✓	
OUTPUTS	1000M IP Output	✓	✓	✓	✓	✓	✓	✓	✓	✓
	ASI	OPTION			OPTION			OPTION		
NETWORK	100M Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓
	1000M Ethernet	✓	✓	✓	✓	✓	✓	✓	✓	✓



	BM3001 MINI Chassis Based	BM3013 3RU 19" Chassis Based
# of Slot Blade Supported (*)	2	17
Chassis's Dimension W x D x H (mm)	135 x 209 x 46 (Depth Including BNCs)	442 x 345 x 132 (Depth Including BNCs)
Weight (Approximate)	1200g / 2.64lbs	4000g / 8.8lbs (17 Slots Empty)
Input Voltage	External DC 9~24V	110 / 240 VAC 50/60Hz
Power Consumption (Depending on options fitted)	10W Max.	170W Max.
Hot-Swap Power Supply (BM-RPSU)	N/A	Supported
1RU 19" Rack Mountable Kit	Supported	N/A

(H) version occupies one slot. (A) or (D) version occupies two slots.
The weight and dimension does not include the package.

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To get the detailed information of BM264 H.264/AVC encoders and the products' support, please visit B&M MODERN MEDIA INC. web site www.bmserver.net or email us at bmsales@bmserver.net

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