AEV Broadcast Engineering®

XTREME - 6

AEV digital audio SIX-BANDS Broadcast Processor

ADVANCED TECHNOLOGY FOR EXCELLENT RESULTS
Xtreme-6 is the lastest AEV's digital audio processor, excellent six-bands audio process
Xtreme-6 is available with stereo encoder and RDS coder for broadcast applications that has been designed using highly innovative technology. Into Xtreme-6 it is integrated also the programmable delay and the MP3 audio player with memory built-in.
Available optionally internal IP codec encoder/decoder
With the Web server on-board, you can manage also in remote mode all features of the equipment, with a fully and sure control
The result is the most advanced that a stereo broadcasting system can offer, with an exceptional array of features. Besides guaranteeing excellent stereo separation between channels, AEV's Digital Stereo Encoder ensures a transparency of sound never before reached, whilst maintaining exceptional stability.
As AEV tradition, a product always completely Made in Italy, with the use of the most advanced technologies, achieving the result that respects the AEV philosophy: Quality, Innovation and Reliability over time.

- Two Digital AES/EBU Inputs & Outputs
- Advanced programmable inputs switcher
- Balanced Analog Inputs & Outputs
- AES/EBU standard, 24 bit resolution
- UltraLow Latency Structure (< 3 ms delay)
- Six - Bands multiband compressor process
- Audio delay programmable
- Dual-bands AGC control
- Loudness control function
- Dual Audio Process OnAir
- Blank Audio detector Internal
- Audio backup MP3 player
- DSP processing powered
- Phase Rotator
- Digital Stereo Coder
- MPX Audio decoder to L&R
- Two Composite MPX outputs
- Digital MPX output
- Radio Data System encoder
- Display Color TFT 480 x 128
- RDS Data decoder
- Ethernet control
- Speech detector
- Stereo Enhancer
- Ethernet port RJ45
- Serial ports USB & RS232
- IP codec internal board (optional)

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TECHNICAL DETAILS

Frequency response	20Hz ÷ 15 KHz FM version
Stop band rejection	> 80 dB beyond 1 KHz
Total distortion	< 0,005 %
L/R cross talk	≤ -70dB,20Hz-15KHz
Operation Mono mode	L+R, only R, only L

ANALOG AUDIO INPUT

Configuration	Left and Right
Impedance	10 KΩ / 600Ω balanced
CMRR	>45dB from 30 to 15 Khz
A/D Conversion	192 kHz sample rate
Sensitivity	±13dBu
Maximum input level	+15 dBu
Connector	XLR-type, female, Pin 1 Chassis, Pin 2 & 3 electronically balanced, floating and symmetrical

DIGITAL INPUT

Digital input configuration	AES 3 professional (IEC-60958)
Digital AES 3 Input Impedance	110 ohmBalanced
Digital AES 3 Input Connector	XLR Female
Sample Rate Automatic lock	32 - 44.1 - 48 - 96 – 192 KHz
Resolution	24 Bit

ANALOG AUDIO OUTPUT

Configuration	Left and Right. Flat or pre-emphasized (50µS – 75µS)
Impedance	30 Ω electronically balanced and floating
Minimum load impedance	600 Ω
Maximum output level	+24 dBu
CMRR Output:	>80dB (20Hz-20kHz)
Connector	XLR-type male Pin 1 Chassis, Pin 2 & 3 electronically balanced, floating and symmetrical

DIGITAL OUTPUT

Digital Output Sample Rate	Software Selectable 32 - 44.1 - 48 - 96 – 192 KHz
Resolution	24 Bit
Digital Output configuration	Stereo AES3 Transformer Balanced (IEC-60958)
Digital Output Impedance	110 Ω Balanced
Digital Output Level range	0,0 dBFs ÷ -36 dBFs adjustable
Digital Output Connector	XLR Male

STEREO GENERATOR (version MPX only)

Configuration	two outputs + digital 192 KHz
Pilot freq.	19 KHz ± 0.001% Max over temp.
Pilot injection	+4÷18%
Distortion	<0.005%@1kHz
Noise signal ratio	74 dB (Din Audio,Bypass mode) Typical
Stereo separation	78 dB Typical
38 kHz subcarrier suppression	>85 dB
76 kHz suppression	>85 dB
Composite audio level	0 ÷ 15dB
Connectors	BNC
Output impedance	50 Ω

12.7 DATA

Terminal Interface	Ethernet / RS232- at rear, asynchronous
Data Input	Full duplex
Format	Selectable
Serial Transmission Speed	2400 ÷ 19600 baud
Connector	RJ45 / RS232/ USB
Data management	Microprocessor controlled Non volatile memory Flash data retention 10 years

12.8 Logic I/O

Connector	DB15 cannon female

12.9 GENERAL

Mains Voltage	90–260Vac/50Hzfullrange
Dimension	(WxHxD) 48,3 x 19,4 x 4,4 cm 1 rack unit
Weight	3,9 Kg.
Operating Temp.	0÷50°C.
Operating Humidity.	Max 95% not condensing

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