



## *New Fully Modular Digital Console*

### *ACUO MB*

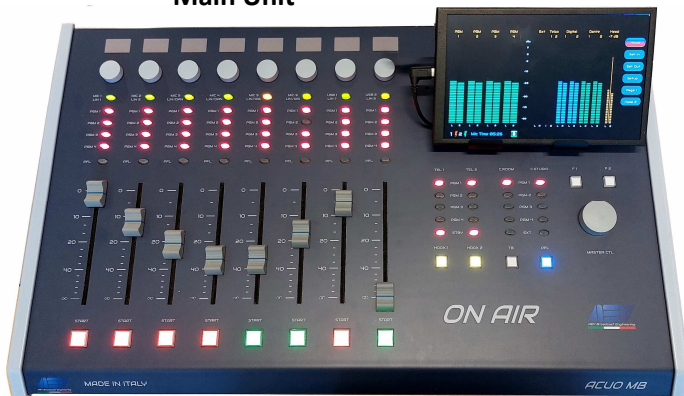


#### **ACUO MB - Features:**

- Modular configuration: 8 / 12 / 16 faders
- 6 balanced mono Microphone input with phantom power with XLR connectors
- 8 balanced stereo lines with RJ-45 connectors
- 2 Digital AES/EBU stereo inputs
- Dante™ AoIP I/O (optional)
- 2 internal USB Audio Boards
- 2 Telephone opto-coupled hybrid internally integrated with TELCO function
- All Balanced inputs and outputs
- Digital AES/EBU input & output
- Digital setup and setting Mixer
- 8 faders with A/B input control 2 direct routing buttons on each channel.
- Led meter display for External input swichtable with PFL
- 8 x 100 mm ALPS Sliders
- START/STOP key for all channels
- Digital Four band tone control all inputs channels
- Two Telephone/Telco opto- coupled hybrid internally integrated with TEL SET assignable, Bluetooth channel on TEL/TELCO 2
- Headphone output monitoring
- Control Room and Studio functions with monitor mode selector
- Control Room out with mute logic
- 2 internal USB Audio Board for extra versatility connection
- Output opto-coupled ON AIR command
- GPIO - Totally shielded bus
- Digital TFT display 8" for monitoring & setup functions, optionally available LCD 10"
- Four Digital stereo led meters showing the Master stereo levels: **PGM1, PGM2, PGM3 PGM4**
- automatically CUE switch for Pre-Listening function for each channel, including the Tel/Telco channels
- Digital Timer UP/DOWN
- Remote Fader / Talkback Unit to fully talkback function between Studio Room and Control Room
- Remote Fader Talk back Studio Unit easy connectivity with ethernet cable and RJ45 connectors.
- External HDMI output for external display
- Configurable control monitoring, paging, CUE, headphones and vu-meters for all system signals.
- Silent ventilation of all elements through natural convection.
- Talkback function assignable to any microphone. 4 pre-configured talkback destinations plus a choice of further talkback destinations via soft-keys.
- 2 integrated headphone outputs.
- 4 precision stereo vu-meters.
- Test tone generator.
- External system time clock synch, timer and stopwatch.
- Optional redundant power supply.
- Cough mute, ON-AIR signalling for studio and control, fader start, remote PFL, talkback...
- Memory banks – storage of all signal settings: one "default" and up to xx user-defined configurations.
- Auto start with the last settings made.
- Input signals assignable to control channels.
- Pre-/Post-Fader routing option.
- Flexible configuration of N-1 or clean-feed outputs.
- Internal sampling frequency 48kHz at 24bits
- Gain control (digital and analogue input and output signals at line level):  $\pm 12$  dB, including hidden signals.
- Audio processing capability for all microphone
- Audio effects available: 4-band parametric EQ, high-pass and low-pass filters, compressor/limiter and noise gate.
- Main surface with 8 faders, LCD display, all-in-one unit
- Expansion inputs surface: 4 faders single channel
- Hardware channels update; up to eight additional fader/channels with two expansion units
- Easy connection additional expansion units with ethernet cable to Main Unit



**Main Unit**



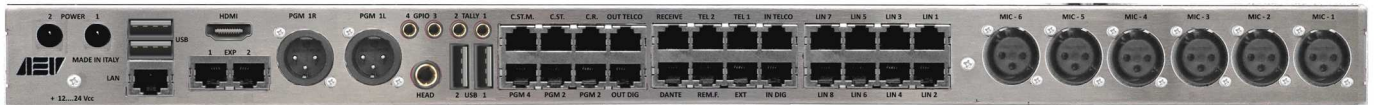
**Channels Expansion Unit**



**RJ45-XLR  
converter cable**



**Rear Side Main Unit**



## TECHNICAL SPECIFICATIONS

### Microphone Inputs

Input configuration Electronically balanced  
Sensitivity Level Range Adjustable from  $-70 \div -40$  dBu  
Input Level Range  $+24$  dBu (Digital adj. step  $0,5$  dB)  
Maximum Input Level  $0$  dBu  
Phantom Supply  $48$  Vdc selectable  
 $100$  mm Fader VCA Digital controlled  
Connector XLR Female

### Line Inputs & External Input

Input configuration Electronically balanced  
Total Frequency response  $+0.5$  dB ( $20$  Hz -  $20$  kHz)  
Harmonic Distorsion + Noise  $0,02\%$   
Input Impedance  $10$  K  $\Omega$   
Analog Input Level  $+4$  dBu  
Headroom  $+18$  dBu  
 $100$  mm Fader control VCA Digital controlled  
Connector RJ-45

### Digital inputs

Input configuration AES/EBU, IEC958, S/PDIF & EIAJ CP340/1201  
Sample Rate Automatic  $32, 44.1, 48$  KHz converter  
 $100$  mm Fader control VCA Digital controlled  
Connector RJ-45

### Dante™ AoIP I/O (optional)

Dante Audio over IP, AES67 RTP, SMPTE ST2110-30  
Sample Rate  $44.1/48/96$  KHz

### Telephone Hybrid / Telco

Input configuration Opto-coupled  
Input impedance  $600$   $\Omega$  Bal  
Line Compensation Automatically (max  $5$  Km)  
Tx Level  $\pm 12$  dBu (Digital adj. step  $0,5$  dB)  
Rx Level Range  $-12/+24$  dBu (Digital adj. step  $0,5$  dB)  
Frequency response:  $300$  Hz  $\div$   $3400$  Hz ( $-1.5$  dB)  
Distortion  $< 1.0$  %  
Noise  $-60$  dB.

### Analog Outputs

Output configuration Electronically balanced  
Maximum Output level  $+24$  dBu  
Crosstalk  $-90$  dBu  
Output Impedance  $100$   $\Omega$  balanced /  $50$   $\Omega$  unbalanced  
PGM 1 Output Level Range  $-12 \div +24$  dBu  
Connector XLR male  
PGM 2/3/4 Output Level Range  $-12 \div +24$  dBu  
Connector RJ-45  
C Room Mut. Output Lev.  $-12 \div +24$  dBu  
Connector RJ-45

### Digital Outputs

Output configuration AES/EBU, IEC958, S/PDIF & EIAJ CP340/1201  
The two digital outputs can be associated with all outputs  
Sample Rate  $32, 44.1, 48$  KHz converter  
Connector RJ-45

### Headphones

configuration Type Stereo unbalanced (C.Room no Muted)  
Output Impedance  $50$   $\Omega$   
Connector Jack TRS female  $6,3$  mm

### Logic I/O

Configuration Optic solid state relay  
Two input-4 outputs  
Max Voltage  $50$  Vdc/ac  
Max Current  $100$  mA  
Connector mini-jack  $3,5$  mm female  
USB Port 2 x USB 2.0 interface  
PWS Switching power supply  $87-240$  VAC,  $50/60$  Hz  $60$  W, output voltage range  $10-28$  Volt  
Redundant PWS available

### Dimensions Mainframe

$600 \times 360 \times 44$  mm (L x D x H)