

Multi-channel Power Amplifiers



XM4180

XM4080

XM4180 Rear Panel

2U



Compact, lightweight 2U amps provide four channels of high-power amplification.

- Ideal for theatre, hall, and conference room installations.
- Four independent channels of power amplification in convenient, manageable units (XM4180 = 180W per channel, XM4080 = 80W per channel).
- Stereo, parallel, or bridged operation switchable from the rear panel.
- Balanced XLR and Euroblock connectors for easy, secure input connection.
- Output connections via five-way binding posts.
- High-pass filter with a selectable 20 Hz or 55 Hz roll-off frequency.
- Precision attenuators and independent indicators for each channel allow accurate level setup and status monitoring.
- The XM4180 can also function as a distribution power amp to drive multiple high-impedance speakers via 70V line output.
- Rear-panel Monitor/Remote jack allows the amp to be monitored and controlled from an external device.

GENERAL SPECIFICATIONS

Model		XM4180	XM4080	
Output Power	8Ω / Channel	210W x 4	90W x 4	
		4Ω / Channel	250W x 4	120W x 4
	1kHz, THD+N=1%	8Ω / Bridge	500W x 2	240W x 2
		8Ω / Channel	180W x 4	80W x 4
	20Hz – 20kHz THD+N=0.1%	4Ω / Channel	230W x 4	115W x 4
		8Ω / Bridge	460W x 2	230W x 2
Sensitivity (dBu)	RL=8Ω Att.max	+4.0	+4.0	
S/N Ratio	20Hz-20kHz (DIN AUDIO)	103dB	103dB	
Idle Power Consumption		40W	40W	
1/8 Power Consumption (4Ω)		600W	400W	
Power Bandwidth	(half power THD+N=0.5%)	10Hz – 40kHz		
THD+N	20Hz – 20kHz, half power	0.1%		
Intermodulation Distortion	60Hz: 7kHz, 4:1, half power	0.1%		
Frequency Response	8Ω, Po=1W,HPF=OFF	MAX 0dB, TYP 0dB, MIN -0.5dB 20Hz-20kHz		
Channel Separation	Half power RL=8W 1kHz ATT. Max input 600Ω shunt	60dB		
Residual Noise	20Hz-20kHz (DIN AUDIO)	-73dBu		
Damping Factor	8Ω, f=1kHz	100		
Voltage Gain	ATT. max	30dB	26dB	
Maximum Input Voltage		22dB		
Input Impedance		20kΩ (balanced) 10kΩ (unbalanced)		
Controls	Front panel	POWER switch (push on/push off), attenuator (31position) x 4		
	Rear panel	MODE switch (STEREO/BRIDGE/PARALLEL) x 2, HPF switch (OFF/20Hz/55Hz 12dB/oct) x 2		
Connectors	Input	XLR-3-31 type/ch, Euroblock (balanced)/ch		
	Output	5–way binding post/ch		
	DATA PORT	D-sub15P, Monitor:Output Level/ch,Active/ch, Model Detect Control:Mute/ch		
	Power	AC inlet x 1		
Indicators	POWER	x 1 (Green)		
	SIGNAL	x 4 (Green)		
	CLIP/LIMIT	x 4 (Red)		
	PROTECT/MUTE	x 4 (Red)		
Load Protection		POWER switch on/off mute, DC-fault output relay off		
Amplifier Protection		Thermal (heatsink temp ≥ 90°C), VI limiter (RL ≤ 2Ω)		
Limiter Circuit		clip limiting, THD ≥ 1.0%		
Cooling	Variable-speed fan	stop-50°C-variable-70°C-Hi		
Power Requirements		120V / 60Hz, 230V / 50Hz, 240V / 50Hz		
Dimensions (W x H x D)		480 x 88 x 412.2 mm (18-7/8" x 3-7/16" x 16-1/4")		
Weight		10kg (22 lbs.)		
Included Accessories		Power cord, Security cover, Owner's Manual, 3-pin Euroblock connector x 4		

*1: 1/8 Power = 9dB below rated power
 *2: Half Power = 3dB below rated power
 *3: 0dBu = 0.775Vrms

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DIMENSIONS

