



*All models include an integrated security cover for tamper-proof installations*

The 4-channel CX amplifiers give you four channels in only two rack spaces, without compromising on power. Choose from three models, a direct 70 volt model and two low-impedance versions. Each model is equipped with exclusive QSC PowerLight™ switching power supply technology to virtually eliminate noise and hum. With high-output power, versatile loading options, high-thermal capacity and unmatched reliability, the CX Series is the perfect solution to any permanently installed sound system.

### CX 4-channel Amplifiers

Model	70V	Watts per channel		
		8Ω	4Ω	2Ω
CX254	–	170	250	450*
CX404	–	250	400**	–
CX204V	200	–	–	–

20 Hz – 20 kHz, 0.05% THD

\*1 kHz, 1% THD

\*\*1 kHz, 0.1% THD

### Features

- Three models that range in power from 170 watts to 450 watts per channel
- Compact size – all models only 2 RU and 14" deep for reduced rack cost and floor space
- Channels 1&2 and 3&4 bridgeable for maximum flexibility
- Active Inrush Limiting eliminates AC inrush current, removing the need for expensive power sequencers
- HD15 DataPort connector for QSControl computer control
- Custom integrated security cover for tamper-proof installations
- Variable speed fan for low noise
- 1 dB detented gain controls for fast and accurate gain settings
- Detachable Euro-style input connectors
- DIP switch control for clip limiters, high-pass filters, bridge-mono and parallel operation
- Exclusive PowerLight switch-mode power supply technology for high performance and compact size
- Selectable high-pass filters protect speakers and prevent speaker transformer saturation with minimal effect on program material (33 Hz or 75 Hz on CX254 and CX404, 50 Hz or 75 Hz on CX204V)
- Comprehensive front panel indicators including signal, clip, protect and QSC's exclusive bridge-mono and parallel input LEDs
- Barrier strip output connector
- Comprehensive protection circuitry including DC, infrasonic, thermal overload and short circuit protection
- High-performance Class AB+B complementary bipolar output circuitry
- Lightweight – all models only 21 pounds (9.5 kg) for easier racking and shipping
- 3-year warranty plus optional 3-year extended service contract

	CX254	CX404	CX204V
Stereo Mode (all channels driven)		Continuous average output power per channel	
8Ω / 20 Hz – 20 kHz / 0.05% THD	170 W	250 W	–
4Ω / 20 Hz – 20 kHz / 0.05% THD	250 W	400 W (0.1% THD, 1 kHz)	–
2Ω / 1 kHz / 1% THD	450 W	–	–
70V / 20 Hz – 20 kHz / 0.05% THD	–	–	200 W
70V / 1 kHz / 0.05% THD	–	–	220 W
70V / 1 kHz / 1% THD	–	–	300 W
Bridge-Mono Mode		Bridge-mono mode operation	
16Ω / 20 Hz – 20 kHz / 0.1% THD	340 W	500 W	–
8Ω / 20 Hz – 20 kHz / 0.1% THD	500 W	800 W (0.1% THD, 1 kHz)	–
4Ω / 1 kHz / 1% THD	900 W	–	–
140V / 20 Hz – 20 kHz / 0.1% THD	–	–	400 W
140V / 1 kHz / 0.05% THD	–	–	440 W
140V / 1 kHz / 1% THD	–	–	600 W
Noise (20 Hz - 20 kHz)	-106 dB	-106 dB	-105 dB
Input Sensitivity	1.22 Vrms	1.22 Vrms	1.26 Vrms
Gain	29 dB at 8Ω	31 dB at 8Ω	35 dB at 70.7V
Input Clipping	10 Vrms (+22 dBu)	10 Vrms (+22 dBu)	10 Vrms (+22 dBu)
Output Circuitry	Class AB+B	Class AB+B	Class AB+B
Distortion (SMPTE-IM)	< 0.01%	< 0.01%	< 0.02%
Distortion (typical)			
20 Hz – 20 kHz: 10 dB below rated power	< 0.01% THD		
1.0 kHz and below: full rated power	< 0.01% THD		
Frequency Response	20 Hz - 20 kHz, ± 0.2 dB   8 Hz - 50 kHz, + 0/-3 dB		
Damping Factor	> 500 (1 kHz and below)		
Input Impedance	6k ohms unbalanced, 12k ohms balanced		
Cooling	Variable-speed fan / rear-to-front air flow through tunnel heat sink		
Connectors	Input: 3 position Euro style detachable barrier block, Ch 1, 2, 3 & 4 DataPort: HD-15 Connector, Ch 1+2, Ch 3+4 Output: Six-position barrier strip with dual channel and bridge mono connections, Ch 1+2, Ch 3+4		
Controls	Front: AC swith, Ch 1, 2, 3 & 4 gain knobs Rear: DIP switch for Ch 1, 2, 3 & 4, clip limiter on/off, LF filter on/off, LF filter freq select 33 Hz or 75 Hz CX254 and CX 404: 50 Hz or 75 Hz CX204V: inputs parallel or stereo, bridge mode		
Indicators	Parallel Inputs: Yellow LED / Bridged: Yellow LED/ Power-on: Green LED Clip-Prot: Red LED / Level -10dB: Green LED / Level -20dB: Green LED / Signal -35dB: Green LED (1 per channel)		
Amplifier Protection	Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads		
Load Protection	On/off muting, DC-fault power supply shutdown		
Dimensions (HWD)	3.5" (8.9 cm) 2 RU x 19" (48.3 cm) rack mounting x 14" (35.6 cm) from front mounting rails		
Weight - Net / Shipping	21 lb (9.5 kg) / 27 lb (12.3 kg)		
Power Requirements	100, 120, 230 VAC, 50 – 60 Hz (configured at factory)		
120V Current Consumption*	Idle	0.7 A	0.7 A
1/8 power pink noise (typical of program material at maximum unclipped power)	8Ω	5.8 A	8.1 A
	4Ω	9.2 A	12.4 A
	2Ω	14.3 A	NR
	70V	–	–
1/3 power pink noise (typical of program material with severe clipping)	8Ω	8.8 A	12.2 A
	4Ω	14.2 A	19.3 A
	2Ω	21.7 A	NR
	70V	–	–
			12.7 A

\* Multiply currents by 0.5 for 230V units



Specifications subject to change without notice.

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CX 4-channel Spec Sheet - 06/04/08

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