

iQD2402 iQD2405 iQD2407 iQD2410

iQD2000 Series - IP Network 4 Zone Class D Power Amplifier



iQD2000 Series is an IP based amplifiers designed for decentralized Amperes iPX systems, merging key components of audio client, decoder and selector as well as Class D power amplifier in a single power pack.

Each model supports 4 zone outputs with A/B terminals (EN54 compliant) and integrates with PMX III for remote monitoring of volume, temperature, and speaker line status.



Key Features

- Supports **24V DC** backup power
- 4 zone outputs with **A/B terminals** (fuse protected)
- Balanced line audio output to external or standby amplifier
- Built-in **Class D amplifier auto fault sensor (AFS)** with standby changeover relay
- **Web-based control** and remote monitoring via PMX software
- **Speaker line monitoring** (Detects open or short speaker lines)
- **API** support for third-party integration

Technical Specifications

iQD2000 Series	iQD2402	iQD2405	iQD2407	iQD2410
Power rating	250W 100V line	500W 100V line	750W 100V line	1000W 100V line
Operating voltage	220 - 240V AC 50/60 Hz or 24 - 30V DC backup supply			
Power consumption (240V AC)	450 VA (1.9A)	850 VA (3.5A)	1150 VA (4.8A)	1550 VA (6.5A)
Current consumption (24V DC)	15A	25A	40A	50A
Standby current (24V DC)	1.2A (Standby input OFF) or 0.5A (Standby input ON)			
IP audio input signal activity	Auto detect / Always ON setting via web			
Frequency response	50 Hz - 18 kHz (± 3 dB @ 1 kHz, 0 dBu)			
Tone / volume controls	Bass, Treble			
THD + Noise & S/N ratio	< 1% > 70dB			
Output zones (100V)	4 zone outputs with A/B terminals (fuse protected)			
Audio output	Master line output, balanced (0 dBu)			
Audio out gain control	Output 100V			
Output audio monitor	Front speaker with volume control			
Aux DC output	24V DC, 3A max			
Communication controls	TCP/IP, UDP, HTTP, ADP, UART (RS485, 19.2 kbps)			
Audio streaming	MP3 up to 256 kbps for BGM; G.722 PCM for paging			
User interface	Web browser interface (Google Chrome V90+ recommended)			
Emergency relay contact	3A, NO relay			
Fault detection	Amplifier fault, line fault with switchable buzzer			
Amp fault changeover	Built-in changeover relay			
Indicators	Signal, temperature, amplifier fault, power, link status, zone selection, pilot tone, hold reset			
Protection & cooling system	Thermal (70°C), overcurrent, short circuit, AC fuse Forced fan with temperature control			
Operating & cut-off temperature	-10°C to 60°C 75°C at heatsink			
Dimensions (W x H x D)	482 x 88 x 420 mm			
Net weight	9.10 kg			

Model Variants

iQD2000 Series	iQD2402	250W 100V Line
	iQD2405	500W 100V Line
	iQD2407	750W 100V Line
	iQD2410	1000W 100V Line

Packing Information

Carton size	555 (L) x 555 (W) x 195 (H) mm
Gross weight	11.05 kg
Qty/carton	1 unit per carton

