QMX

4-CHANNEL POWER AMPLIFIER

Dante® AES TCP/IP DSP

FEDYCO

QMX SUPER
QMX4.4

FEDYCO
POWER AMPLIFIER

Description

QMX inherits the design concept of FEDYCO'S excellent performance and stylish appearance. Undoubtedly, QMX series, one of the flagship products of FEDYCO, is a four-channel Class D power amplifier platform, and it also has FEDYCO's new KIMINSION Multiply system. Embedded Dante/AES audio input module, equipped with high-performance AD24-bit DSP processing chip, high-fidelity and low-noise A/D and D/A conversion.It is real-time monitoring of power amplifier status and real-time control through TCP/IP,suitable for medium and large fixed installation hospitality application scenarios.

FOR HOSPITALITY AMPLIFICATION

Release your loudspeaker's potential

WITH UNPARALLELED PERFORMANCE AND UNRIVALLED QUALITY

- Using Class D amplification scheme by FEDYCO , power factor correction (PFC) technology to improve the performance, reduce the consumption of current, the power consumption is one-third of the analog power amplifier with the same power, which meets the requirements of green environmental protection.

- With 2.0-inch TFT full-vision (IPS) colorful display , show the impedance,output current, temperature,gain status of each channel, convenient for local diagnosis in time.

- FEDYCO's new KIMINSION Multiply system.Embedded Dante/AES audio input module, equipped with high-performance AD24-bit DSP processing chip, high-fidelity and low-noise A/D and D/A conversion.

- It is real-time monitoring of power amplifier status and real-time control through TCP/IP,suitable for medium and large fixed installation hospitality application scenarios.

- Digital signal amplification is used to make the phase of the output signal and the input signal exactly the same.There is no relative change of high frequency, mid frequency and low frequency. The phase shift is zero, so the sound image positioning is accurate.

- Compatible with Wall-Touch system " KM Touch ".

- There will be no crossover distortion, no zero-crossing distortion, and high degree of restoration when the amplifier is in the switching state.

- Good transient response, good dynamic characteristics, strong explosive feeling, thick and powerful low frequency,clear and pleasant mid-high frequency.

- Strong load capacity, can be connected to low impedance load, more convenient to match.

- Built-in precise limiter circuit, regardless of the load impedance, the circuit can detect whether the output is clipping and limit it in advance, making the system operation safer.

- Built-in network high-speed switch, double network ports, to achieve network hand-in-hand function.

- According to the requirements of the project, the number of uses can be set and locked with a password.

Models

QMX4.6D
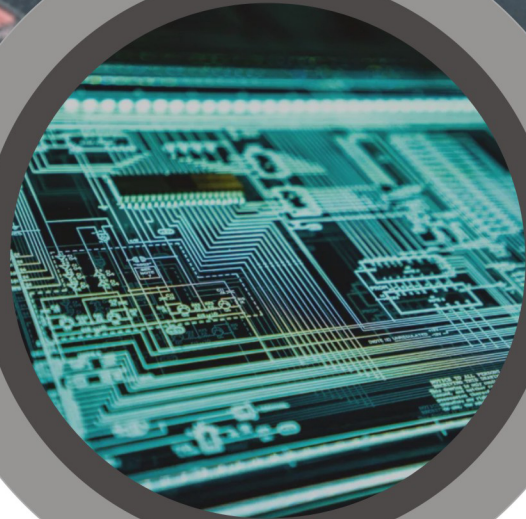
3600W 4*800W@4ohm
all channels driven

Superior Networked Audio

Real-time control by connect TCP/IP,including the mode selection
(Stereo/Parallel/Bridge),sensitivity selection（0. 775V/1. 0V/1. 44V）,
signal source selection,output form selection（Constant voltage
70-100V,fixed resistance）,available to setting matrix,delay,
7-segment EQ,pressure limit,phase,mute,level gain,save/recall.

Unparalleled Power

Power design 4*550W/4*800W@4OHM is suitable for hotal,Conference room,
and other fixed installation ,large-scale performances and so on.

Technology

4CH DSP AMPLIFIER

A	B
VOL:0.0dB	VOL:0.0dB
TEM:027℃	TEM:027℃
SEN:1.0V	SEN:1.0V

A-STEREO-B   C-STEREO-D

C	D
VOL:0.0dB	VOL:0.0dB
TEM:027℃	TEM:027℃
SEN:1.0V	SEN:1.0V

Power Gear

Maximizes output power and reduces idle power

Complete digital monitoring and control

Wide range input for maximum flexibility

Highest reliability thanks to Dynacord's protection algorithms

Junction Temperaturw Modelling

Overheat component protection by constant temperature modelling

Ensures maximum output power

Provides highest operational reliability

Wall Touch

Easy wall-installation

Long-distant audio controller

Set up by Fedyco's KIMINSION Multiply

Computer Software Interface

Sound engineers aim to create the best sound quality show after show,and giving the audience an unforgettable experience time after time. However,making the vast array of diverse equipment and technologies work in sync at every venue takes skill,experience and time.
But time is always limited and the show must go on.
That's why we offer a new,unique soft-ware platform for f aster digital sound design and management,designed with simplicity and performance in mind,providing transparency,overview and control to save time on set-up while giving total control for audio management and the perfect sound.Fully compatible with Dante Audio, this software is designed around our users and the way they work.

Specifications

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	QMX4.3D	QMX4.4D	QMX4.6D
Stereo（4 Channels）	POWER FOR EACH CHANNELS		
8Ω/FTC20HZ-20KHZ@0.1%THD	4x250W	4x400W	4x600W
4Ω/FTC20HZ-20KHZ@0.1%THD	4x350W	4x550W	4x800W
Bridged（2 Channels）	POWER		
8Ω/FTC20HZ-20KHZ@0.1%THD	2x500W	2x800W	2x1200W
4Ω/FTC20HZ-20KHZ@0.1%THD	2x700W	2x1100W	2x1600W
70V/100V 20HZ-20KHZ@0.1%THD	4x350W	4x550W	4x800W
S/N（20HZ-20KHZ）8Ω	>95DB		
THD（@8Ω 1KHZ）	<0.5%		
Input Sensitivity	0.775V / 1.0V / 1.44V		
Frequency Response	20HZ-20KHZ+/-0.5DB		
Circuit Type	CLASS D(PFC TECH)		
Damping Factor	>1000@ 8Ω 400Hz		
DSP	48K ADI24-BIT DSP:DELAY ,COMPRESSOR, PEQ(11).MIXER, GAIN		
Cooling System	3Fans		
In/Output Connection	Input:Phoenix plug,AES Input,DANTE Input.Output:2 pin XLR		
Control	Front panel: DSP control button,Menu button.Rear panel:USB interface		
Protection	Short,Auto Limited,Over load AC/DC protection		
Power Supply	90V-260V		
Connection method	TCP/IP/USB		

★ The above data is based on EIA standards and Q/Fedyco 2023 standards, measured under 1% total harmonic distortion of 1 Khz sine wave