

Technical Specifications				
	DQX-2.4	DQX-4.0	DQX-5.5	DQX-7.0
<b>Output Power</b>				
<i>Continuous Average Power</i>				
<i>RMS, 1kHz, 1.0% THD+N</i>				
@ 2Ω	2x 1200 W	2x 1950 W	2x 2700 W	2x 3450 W
@ 4Ω	2x 800 W	2x 1300 W	2x 1800 W	2x 2300 W
@ 8Ω	2x 450 W	2x750 W	2x1000 W	2x 1300 W
Bridge @ 4Ω	2400 W	3900 W	5400 W	6900 W
Bridge @ 8Ω	1600 W	2600 W	3600 W	4600 W
<i>Pink Noise 12dB Crest Factor</i>				
@ 2Ω	2x 1600 W	2x 2600 W	2x 3600 W	2x 4600 W
@ 4Ω	2x 950 W	2x 1580 W	2x 2100 W	2x 2700 W
<b>Frequency Response</b>				
Power Bandwidth ±0.25dB	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz	20Hz-20kHz
<b>Phase Response</b>				
@ 1 watt 20Hz-20kHz	±15 deg	±15 deg	±15 deg	±15 deg
<b>Total Harmonic Distortion</b>				
20Hz-20kHz	<0.05%	<0.05%	<0.05%	<0.05%
<b>Intermodulation Distortion</b>				
SMPTE	<0.05%	<0.05%	<0.05%	<0.05%
<b>Crosstalk</b>				
20Hz-20kHz	>75 dB	>75 dB	>75 dB	>75 dB
<b>Voltage Gain</b>				
	26/32/38 dB	26/32/38 dB	26/32/38 dB	26/32/38 dB
<b>Sensitivity</b>				
Rated Power @ 8Ω	3/1.5/0.8 V	3.9/1.9/1 V	4.5/2.2/1.1 V	5.1/2.6/1.3 V
<b>Signal-to-Noise Ratio</b>				
A weighted	104 dB	105 dB	106 dB	107 dB
<b>Required AC Mains</b>				
230 V - 50 Hz (idle)	0.5A	0.5A	0.5A	0.5A
@ 4Ω (1/8 rated power)	4 A	7 A	10 A	13 A
<b>Dimensions</b>				
W x H x D (mm)	483x89x460	483x89x460	483x89x460	483x89x460
W x H x D (inches)	19x3.5x18.1	19x3.5x18.1	19x3.5x18.1	19x3.5x18.1
<b>Weight</b>				
Shipping	14Kg-30.4Lbs	14Kg-30.4Lbs	15Kg-32.6Lbs	15Kg-32.6Lbs
Net	13Kg-28.3Lbs	13Kg-28.3Lbs	14Kg-30.4Lbs	14Kg-30.4Lbs
<b>Protections</b>				
Soft-start, Turn-on Turn-off transients, Muting at turn-on, Over-heating, DC, RF, Short-circuit (CSP), Open or mismatched loads, Overloaded power supply, Input overload (ICL), CRO				



# DQX Series

QuantaPulse™ Power Tech

EtheRAM™ Control



RAM Audio®

*The times are achangin' said Dylan some years ago and indeed they are. Our industry is also going through one of its most important changes ever. Technicians, roadies and rig owners are demanding their unquestionable share for comfort in their ever more hard chores. No one can be deaf to logical requests.*

*DQX Series is our response to practical professionals not wanting to loose any of the advantages of their current gear, but gaining the easyness deriving from light-weight amp racks.*

*For the project our R&D department received very precise instructions. They were the sum of our client's feed back information and our manufacturer's expertise. -"Design something light but never below our present performance"- We sincerely think they have succeeded.*

*The looks are familiar but in fact every part has been redesigned in the DQX for optimal results. The new cooling process is 20% more efficient, the heat sinks include the guiding slots permitting a simple, yet precise wind tunnel that sends the air flow where it is mostly needed. The module's layout will ring a bell, we are adepts of proven technology. We have just added the necessary parts to match the new power supply.*

The DQX power supply is a real Power Station, based on the QuantaPulse technology, it gives the amps all the power needed to make you think you are running your rig with conventional amplification. Isn't that a change?.

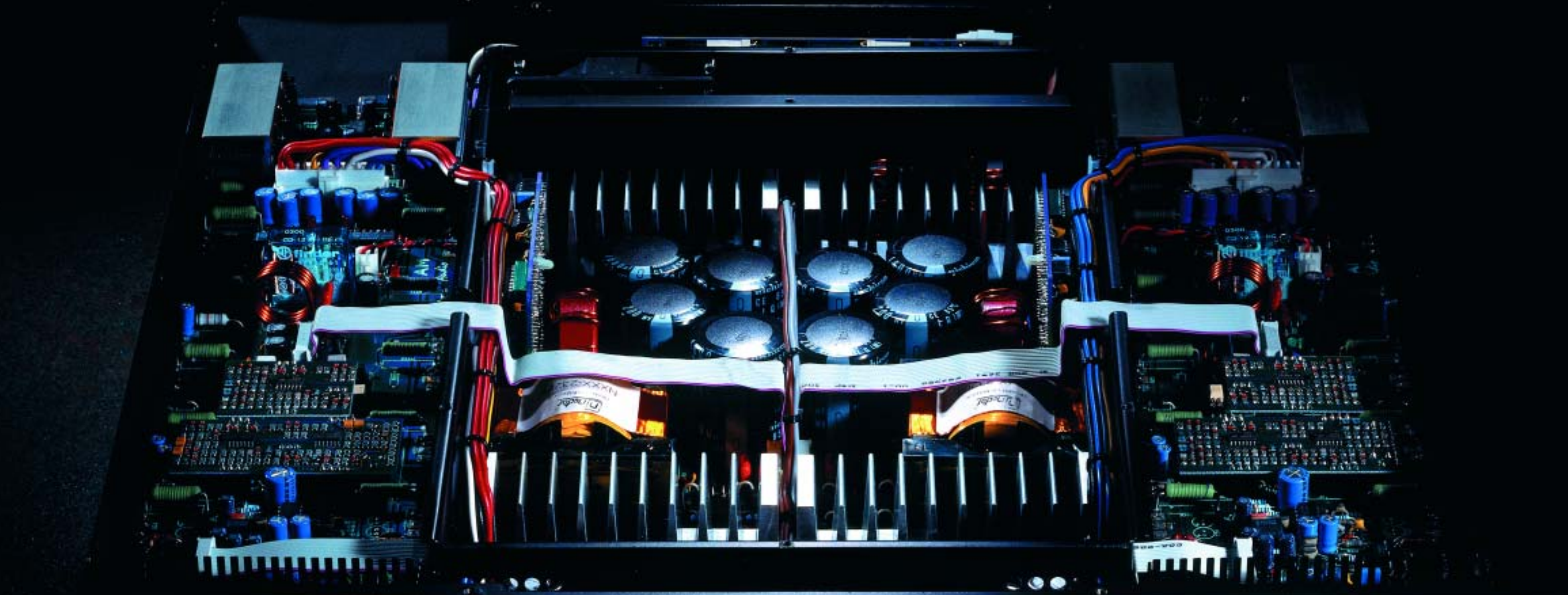
Built inside its own separate chassis, the supply features a specific cooling fan to obtain complete independence from the main temperature control. With this design, none of the modular advantages available in our current series are lost. Service technicians will appreciate.

Inside the DQX they will also find all the safety features that have made their lives a little bit easier.



The compact control boards, placed unobstrusively on both sides of the independent chassis, generate all the driving signals and control check points, needed by the QuantaPulse power supply.





 **RAM** *Audio*



SmartPower™ II

DOX 7.0



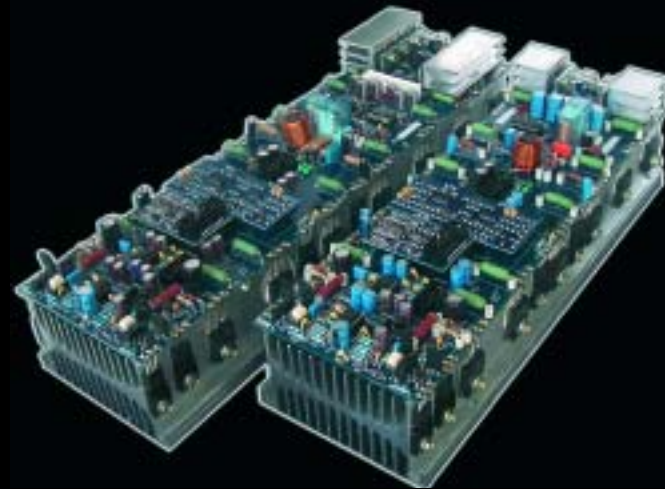
# DQX-E EtherAM Control System

EtherAM is a control system which permits, with just a computer, the control and monitoring of an installed group of DQX-E Power Amps, connected to a standard EtherNet LAN (local area network). The system can be used to switch-on remotely the amplifiers as well as to control their output levels, it can also be used as a monitoring system for all the DQX Amps parameters. Finally, it can be used as a diagnosis tool to visualize the status of any acoustic system connected to the Amps.

The EtherAM Control software, installed in any Windows system, permits the visualization and control of more than a hundred amps in real time, with a simple connection to a wired or a wireless EtherNet LAN. The system can be integrated in any existing EtherNet LAN and does not require any other external device to function. In other words, the system does not need any exclusive or specific network installation. Each Power Amp network-ready includes a DataCom port with a RJ45 connector (Neutrik®), through which the amp is connected to the EtherNet LAN via a standard switch.

## Features

- Up to 7.000 Watts RMS per unit
- 2U 14Kg Custom alloy chassis throughout the series
- Full PC control via EtherAM (DQX-E version)
- QuantaPulse Technology Power Supply in self-contained independant chassis
- Modular construction for "technician friendly" servicing
- Symmetrical layout for even weight distribution
- Dual, Bridged or Parallel operation
- Selectable Gain: 26, 32 or 38 dB.
- Twin balanced inputs (Neutrik® XLR connectors)
- 41 step detented input attenuators
- High quality components used throughout
- Dual Binding posts & Neutrik® Speakon Output Connectors combination
- Dual, continously variable speed axial fans
- Efficient back to front cooling
- Independent power supply cooling fan
- OK, Temp, Fault, Signal and ICL indicators
- Duraluminium, 8 mm thick front panel
- Unobtrusive carrying handles



## Protections

- Calibrated mains fuse
- Independent channel supply rails fuses
- Input signal muting at turn-on
- Permanent Short-circuit Protection (SCP)
- Thermal overload protection
- Intelligent Clip Limiter (ICL)
- Progressive Ramp signal input
- Currentless Relay Operation (CRO)



## Features:

### Input Control and Monitoring:

- Input Gain selected: 26-32-38dB
- Pre/Post-fader signal level metering (dBU or Volts)
- Pre/Post-fader signal monitoring
- Front panel level knob position monitoring (dB)
- Level control
- Level monitoring (dB)
- Mute control
- Solo control

### Output Monitoring:

- Output voltage metering (dB relative to true maximum voltage output)
- Output current metering (Amperes)
- Output power metering (Watts)
- Output Clip monitoring
- Output signal monitoring

### Load Monitoring:

- Open/shorted load detection
- Adjustable threshold for detecting load opens and shorts
- Real time average minimum impedance (Ohms)

### Other Features:

Log file report (On/Stby/Off mode, Fault, Temp, excessive Clip, incorrect load, connection state), 10 direct presets, Passwords manager, amplifier groups tree visualization, sequential turn-on, 3 visualization modes, off-line operation option, instant emergency alarm visualization (Standby/Off, Fault, low gain, mismatch load), amplifier groups level, mute and solo control, Master emergency monitoring and On/Stby control.



### General Parameters:

- On/Stby control mode selection
- Supply mode indication (Off/Stby/On)
- Fault status monitoring
- Temp protection status monitoring
- Operating temperature metering
- Model indication
- SN indication
- User-writable main reference
- User-writable channel references