



A brand new software package, iCore, has been developed to work alongside all Ti Series components (amplifiers, breakout boxes, processors) and provides a centralised point for all control and monitoring. Remote control of output gains and configuration of off-line monitoring of the rest of the system is set up under iCore.

Supporting the most popular network audio transports currently available, and offering the flexibility to work with a relative newcomer, the Ti Breakout boxes fit into any installation (or live sound) application with ease.

Both the 8 & 16 channel models have installer-friendly Phoenix connections for all audio and remote I/O and a universal power supply to work anywhere.

The programmable GPI port can be used to monitor and control other Ti Series components on the the network, with RS485 bridging via the network audio link to all parts of the system. Alternative the unit may be used independently just as an audio breakout, straight from the box.

## Main Specifications

**Outputs:** 8/16 Electronically Balanced Phoenix (8/16) or XLR (8 only)  
**DACS:** 24-bit, 96kHz capable\*  
**Maximum Output Level:** +21dBu; **Minimum Load:** 600 ohm  
**Frequency Response:** 10Hz to 20kHz  $\pm 0.2$ dB  
**Noise:** <-90dB 20Hz - 20kHz unweighted  
**Power Requirements:** 90 to 250V  $\pm 15\%$  @ 50/60Hz, <30W  
**Dimensions:** 1U rack space - (mm)44(h) x 482(w) x 300(d)  
 Boxed (shipping size - UK)230 x 580 x 560 (Single boxed)  
**Weight:** 3.5kg, Boxed (shipping weight) 5.0kg

\*Dependent on network audio transport configuration

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## Additional Specifications

**Supported Audio Networks:** Cobranet, Danté  
**GPI Functionality:** Master amplifier mute logic level input\*;  
 Master amplifier standby logic level input\*;  
 Master mode select logic input;  
 Master mode fault reset logic input\*\*;  
 General error logic output;  
 Network (comms) error logic output;  
 Amplifier load error logic output;  
 Amplifier protection error logic output;  
**Power Fail Audio Input:** Relay linked to all audio outputs  
**RS485 Comms:** 3-way Phoenix for connection to local components only

\*Local amplifiers only will be controlled in non-master mode \*\*Fault reset only used in "latched" master mode [see manual for details of master mode operation]

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### Additional Specifications

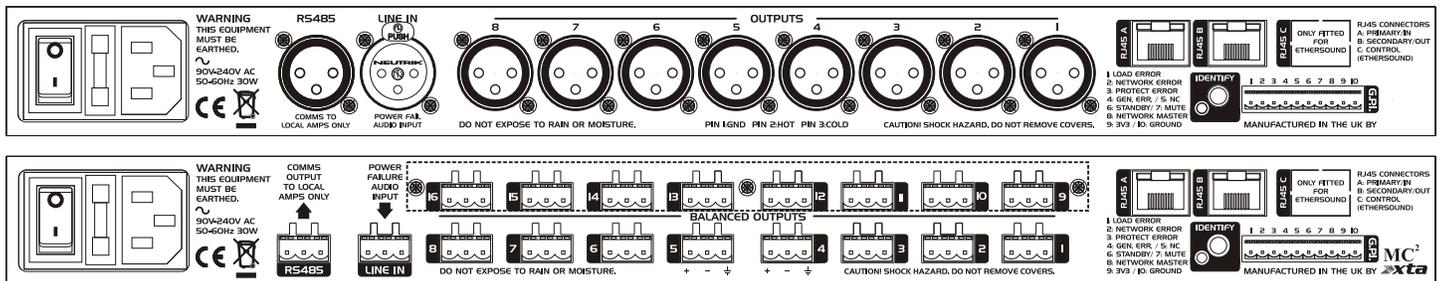
**Remote monitoring:** Master breakout box will poll all other breakout boxes and all amplifiers on the system. Breakout boxes report back with a status OK message.

Amplifiers report back with a status OK message that additionally contains information about protect faults, load errors. Faults and errors are reported via GPI signals, with individual lines for Network, Load and Protect.

**Remote control:** Master breakout box can transmit global standby/wake-up messages to all amplifiers on the system. This function can be disabled, and individual amplifiers can be set to ignore the message if required. Similarly, global mute/unmute messages can be sent to all amplifiers. This can also be separately disabled if not necessary.



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### Controls, Indicators & Connectors

**Front Panel:** Output metering: 5 point LED dB from clip;  
Audio Network Transport Active and Link LEDs  
RS485 Comms Network Transmit and Receive LEDs  
Power LED (also functions as remote/local identify LED)

**Rear Panel:** Outputs(8): 3-way Phoenix connectors/XLR; (16) 3-way Phoenix only\*  
Power fail audio input: 3-way Phoenix (8/16 ch. Phoenix BoBs), 3 pin XLR (8 ch. XLR BoBs)  
RS485 comms network connection: 3-way Phoenix  
GPI port: 10-way mini-Phoenix connector  
Power: Standard 3-pin IEC switched mains inlet

\*All versions are electronically balanced

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### Architects' and Engineers' Specification

The unit shall provide either 8 or 16 analogue outputs from a digital audio network stream at a resolution of up to 24-bit and a sample rate of up to 96kHz. Basic analogue metering for the outputs shall be provided on the front panel. Outputs on the 1U variant shall be available in either Phoenix or XLR format, both electronically balanced. The unit shall allow for digital attenuation of individual outputs via software control, and shall be configurable to monitor MC<sup>2</sup> Ti Series amplifiers when no computer control is possible or needed.

A GPI port shall provide control for system-wide amplifier muting and stand-by functions when in "Master" mode, and locally connected amplifier muting and stand-by functions when in "Remote" mode. Additionally, the GPI port shall provide individual signal outputs to show comms, load and protect errors, with an overall general fault output which may be programmed to respond to any combination of these errors.

The audio processing shall meet or exceed the following specifications:- Frequency Response +0.5dB 10Hz - 20kHz. Dynamic Range > 111dB 20Hz - 20kHz unw. The unit shall be a 1U, 19" rack mount device capable of operating from a 60V AC - 240V AC 50/60Hz supply. The processor shall be the MC<sup>2</sup> Audio model TiBoB.