

VIETA



Ti Line

Overview

The Ti Line from Vieta is a new, compact, remote-controlled amplifier system, designed for low to medium power use in fixed installations. The small, modular Amplifier Blocks are to DIN rail size and fixing standards, the international standard for AC (mains) wiring, compatible with a range of off-the-shelf accessories such as waterproofing and fire-safety covers, which can be sourced from any electrical trade wholesalers. The Ti Line Blocks simply click into place on the DIN rail.

The DIN standard allows the amplifiers to be fitted where all the other electrical mains hardware lives – fuse boxes etc – saving valuable space in smaller shops and bars. Alternatively, the Blocks can be mounted locally throughout larger multiple speaker installations, close to the speakers and thus saving long cable runs and signal losses.

EQ and Level can be set on the Blocks themselves or controlled remotely either by a PC using the Vieta-Net protocol and a network connection with an IP address, by infra-red remote control or by simple wall-mounted control boxes. A CobraNet Block will soon be available, allowing audio to also run on Cat-5 cable.

The system is inexpensive yet flexible, and is the perfect companion to the Vieta Do Line and other efficient, high-quality, loudspeaker systems. Installers will love the simplicity of the system as the different Blocks can rapidly be fixed and wired at the same time as contractors do other wiring jobs. As no amp rack is required, the system doesn't occupy high-rent city-centre square metres, and shop, bar and prestige home designers have greater freedom.

System components

Amplifier Blocks - TI-2101 and TI-2102

Currently there are two amplifier Blocks; the TI-2101 & TI-2102. These are Class - T Digital Audio Power Amplifiers using Tripath's proprietary Digital Power Processing™ technology. Class - T amplifiers offer both the audio fidelity of Class-A B, and the power efficiency of Class-D Amplifiers.

TI-2101 - Remote-Controlled Dual-Channel Amplifier Block



The TI-2101 provides up to 2x100 Impulse W into 8 ohms (HF 20ms/480ms Tone Burst), measured using a sine wave and limited by circuit protection

It features two balanced +4dBu inputs, a connection for the supplied wired remote control infra-red (IR) sensor, a General Purpose Input (GPI) for external volume control, a Vieta-Net Input, two speaker outputs and a cooling fan. The cooling fan is only required in extreme conditions and can otherwise be switched off. All terminations are by standard bar-strip connectors with the exception of Vieta-Net on CAT-5 and the mini-jack IR sensor input.

On the front panel are up/down controls for Low, Mid and High Frequency and Volume and two 10-position address selectors for Vieta-Net control. LED indicators show Clipping, Data FX, Stand-by and Electric and Thermal Protection. Two external third-party AC transformers are connected to power the 12 volt (control) and 36 volt (amplifier) rails. The AC transformers are not supplied with the unit and should be sourced locally.

The T-2101 has a number of control possibilities. The supplied IR sensor can be mounted in an appropriate place in the installation and the volume and mute controlled by the supplied IR remote control. Alternatively the GPI connections can be used to interface with a simple, third-party wall-mount volume and on/off control. More in-depth control can be achieved using one of the Vieta-Net interfaces and controllers (see below).

The TI-2102 - Remote-Controlled Single-Channel Amplifier Block



The TI-2102 provides up to 1x200 Impulse W Into 8 ohms (HF 20ms/480ms Tone Burst), measured using a sine wave and limited by circuit protection

It is as the TI-2101 but has a single balanced Input, single speaker output and is fitted with a 150Hz Low Pass Filter, ideal for sub-bass applications.

The TI -2201 - Vieta-Net IP Interface Block



The TI-2201 is powered by a single 12V third-party AC transformer (not supplied), has an Ethernet input and a Vieta-Net I/O on CAT-5. This Vieta-Net I/O allows the connection of up to 30 Vieta TI Line Blocks - currently Amplifier Blocks, GPV/GPO and Blocks. In this way a PC can be connected and, via the Vieta-Net proprietary protocol, set and manage the system using Vieta-Net Control (MNC) Software. TI Line Block is manually assigned an address using the selectors on each front panel and EQ (Low, Mid and High), Level and Mute settings can be controlled on each Block. The VNC software also monitors and indicates Clipping, Protection, Temperature and DC Voltage. Settings can be saved from the TI Line Blocks and loaded to them, and multiples of Blocks can be individually addressed from the PC.



■ **Ti-2510 SD player, Mic pre and Aux IN Block**



The NEW Ti-2510 block matches any audio signal to the Ti-2101 and Ti-2102 amplifier blocks. The included SD player allows up to 2Gb of music or other program material to be played and controlled from the front panel or Vieta-Net. There are also selection buttons for each source (SD, Mic, Aux). 4 GPI inputs can be used to control different functions from an external contact. The Ti-2510 uses a 12V external power supply.

■ **Ti-2301 GPV/GPO Block**



The Ti-2301 is fitted with 4 X Opto-Isolated GPI (General Purpose Inputs) and 4 X Opto-isolated GPO (General Purpose Outputs - 4A Max Relay) and is supplied with an externally mounting IR sensor and IR remote control allowing external event control. In this way 4 external devices can be controlled permitting full system integration with lights, blinds, screens etc. A Vieta-Net I/O is fitted and an address selector. Like the Amplifier Blocks, GPV/GPO Blocks can be controlled by the Ti-2201 I/P Block and a PC, or the Ti-2202 Stand-Alone Controller. It uses the same third-party, DIN Rail AC power supply as the Ti-2101, Ti-2102 or Ti-2201.



■ **Ti-2601 - 100v Line Block 50W RMS**



The Ti-2601 contains a high-grade, sectional-wound transformer allowing true high-fidelity audio to be distributed over long distances and to multiple speakers using a constant voltage line. Not to be confused with "cheap transformers" which produce low quality audio, a system run at high impedance using these Blocks is virtually identical in frequency response to the same system run at low impedance with short cable runs. Suitable for use with the Ti-2101 or Ti-2102 Amplifier Blocks.

■ **Ti-2602 - 100v Line Block 100W RMS**

This is as the Ti- 2601(above) but with a higher power rating.

■ TI-2701 - Two-Tier, DIN rail to 19-Inch Rack Adaptor.



This accessory allows DIN rail units, including TI Line Blocks to be rack-mounted. Space is used efficiently as the two tiers allow (for example) the power supplies to be mounted at the back and the Blocks to be forward facing.



■ Third Party Accessories:

The DIN rail or top-hat rail is a standardised 35mm-wide metal rail which conforms to the following standards: EN 50022 (Europe), BS 5584 (UK), DIN 46277 (Germany) and IEC 60715 (International). In addition to power supplies, a vast array of other accessories are widely available from a number of suppliers, inexpensively, that conform to this standard. Specialist, high-risk, installations can be fitted with the Ti Line using pre-approved, third-party safety-covers. This allows the Ti Line to be used in situations where other amplifiers cannot be used cost-effectively.