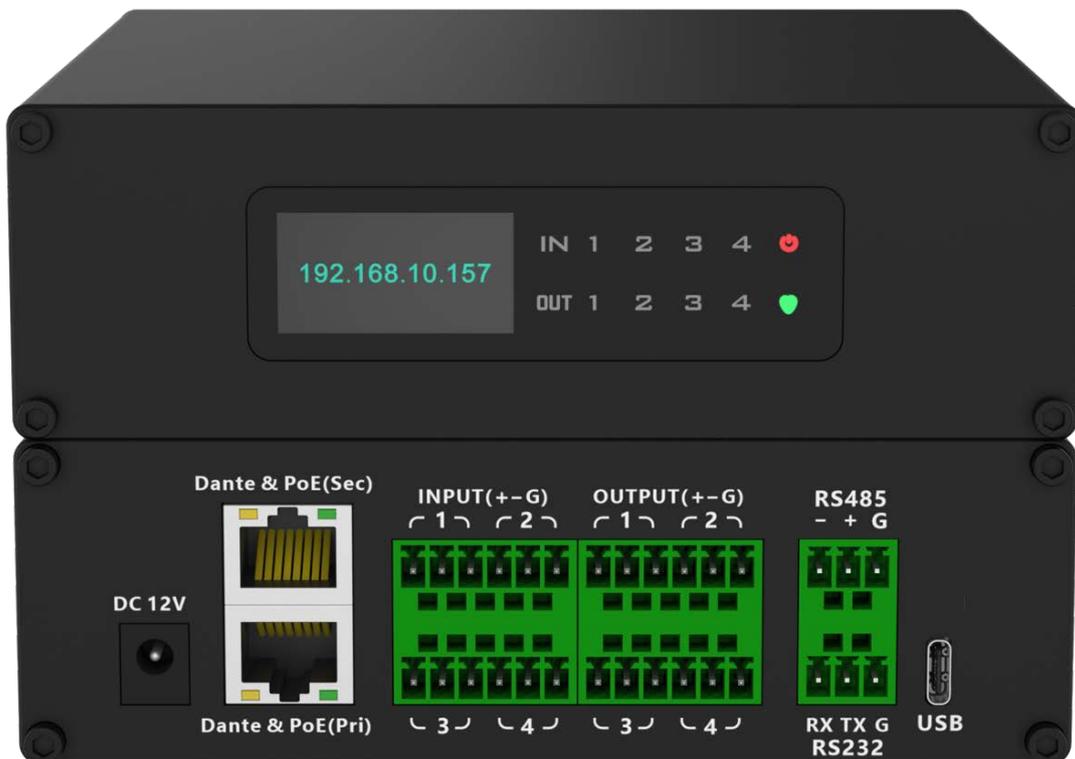# 1.Product Introduction   TS-P0404

1.1 Introduction

The DSP TS-P0404 supports analog channel 4 into 4 out, USB-C Audio, comprehensive matrix mixing function, equipped with high-performance A/D D/A converter and 32-bit floating-point DSP processor, support 24bit/48KHz sampling frequency, restore high-quality sound, user-friendly operation software interface, easy to operate and powerful performance.

1.2 Product Features

➢ Highly integrated, integrating a variety of traditional Analog audio processing equipment in a Digital audio processor;

➢ High-performance 32-bit floating-point DSP processor, all-digital processing, fast response to feedback cancellation, echo cancellation, noise suppression and other core algorithms;

➢ High-performance A/D, D/A converter, 24bit/48KHz sampling frequency, high-quality Analog → Digital, Digital → Analog conversion;

➢ 4 Analog input channels and 4 Analog output channels, very small distortion and ultra-low background noise;

➢ Supports Dante network transmission, which makes audio transmission more stable and faster;

➢ Graphical, intuitive and easy-to-operate control software interface;

➢ Comprehensive matrix mixing functions;

➢ Scene storage is different from the Analog equipment is one of the most practical and significant features, can store 8 complete scenes, all the scenes can be exported to an external storage device for storage backup, so that the later call at any time.

1.3 Functions

✧ Comprehensive matrix mixing function, 24bit/48KHz sampling frequency, high performance A/D, D/A converter and 32-bit floating point DSP processor;

✧ DSP audio processing, built-in automatic mixing console, including mixing and automatic mixing functions, but also has a mixing component control function; at the same time with AFC, AEC, ANS module;

✧ Inputs per channel: Preamplifier, Generator, Expander, Compressor, Auto Gain, 5-band parametric EQ, Ducker;

✧ Outputs per channel: delay, crossover, limiter, 31-band graphic EQ;

✧ Display shows the IP address;

✧ Input phase switch, mute switch, phantom power switch;

✧ Output mute switch, phase switch per channel;

✧ Ethernet multi-purpose data transmission and control port, can support real-time management of single and multiple devices;

✧ Intuitive image, simple and easy to understand the graphical software control interface, for customers to bring fast, real-time operating experience;

✧ The device does not need a disc, comes with installation software, a device for a software version, to solve the troubles caused by the loss of the installation disc and the confusion of multiple software versions;

✧ Extendable USB-C interface, support USB Audio;

✧ Configuration of bi-directional RS232 interface, RS485 interface, standard Ethernet control interface;

✧ POE mode power supply, can be used with 802.3af/at standard POE switch;

✧ Support 8 groups of scene presets, save, delete and other functions;

✧ Intuitive, graphical software control interface, works on Windows XP, 7, 8, 10, 11, etc..

2.Specification

Analog channels	4 balanced/line inputs 4 balanced/line outputs
Dante channels	4 input,4 output
Number of USB-C Audio Cards	1
Number of 232 serial interfaces	1
Number of 485 serial interfaces	1
Number of RJ45 interfaces	2
Sample Rate & Quantization Bits	48KHz@24bit
Phantom Power	48V
Frequency Response	20Hz～20KHz,±0.15dB
THD+N	≤0.003%@1kHz,4dBu
Analog to Digital Dynamic Range (A-weight)	120dB
Digital to Analog Dynamic Range (A-weight)	114dB
Input Impedance (Balanced)	20kΩ
Output Impedance (Balanced)	100Ω

Channel Isolation	100dB@1KHz,4dBu
Signal-to-Noise Ratio	107dB
Maximum Input Level	18dBu
Maximum Output Level	18dBu
Background Noise	-89dBu
Operating Power Supply	DC 12V/PoE power supply
Power Consumption	<15W
Operating Temperature	-10℃-40℃
Operating Humidity	10%~90% No condensation
Product Weight	0.8KG
Product Size	216x190.5x44mm