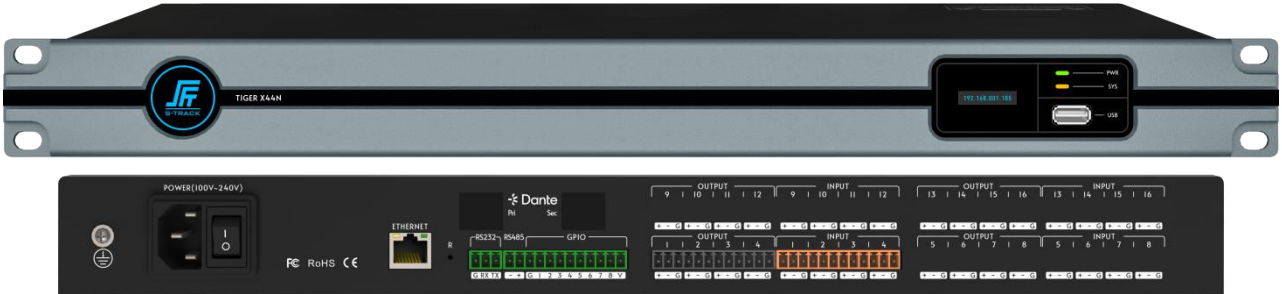
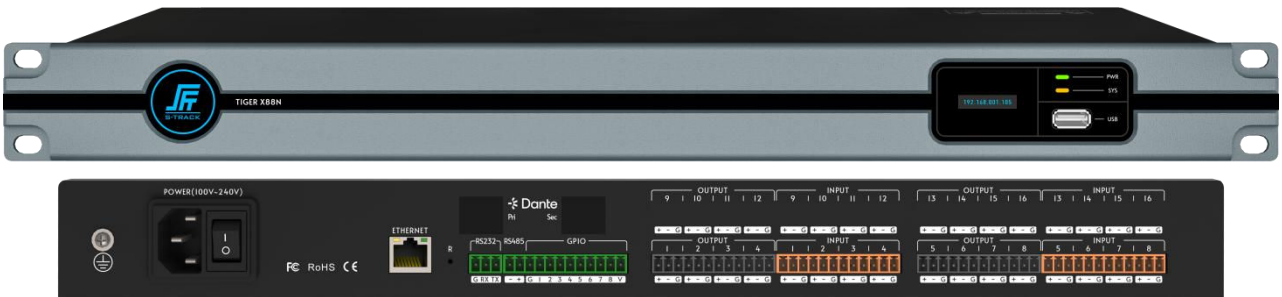


TIGER X Series

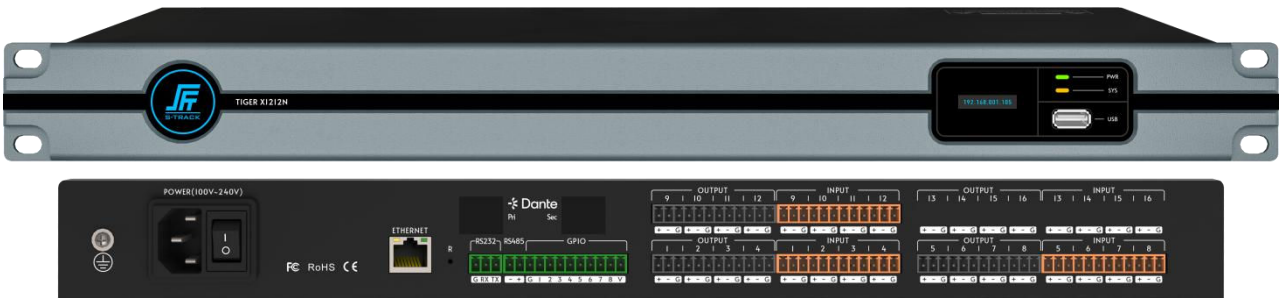
Digital Signal Processor



4 In 4 Out TIGER X44N



8 In 8 Out TIGER X88N



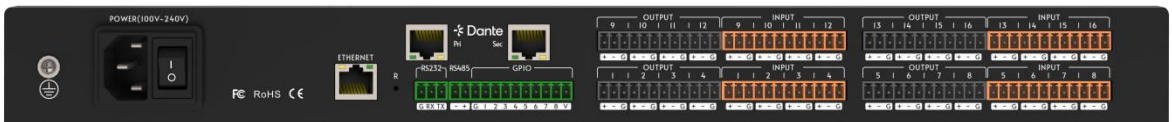
12 In 12 Out TIGER X1212N



16 In 16 Out TIGER X1616N



8 In 8 Out Dante Edition TIGER XD88N



16 In 16 Out Dante Edition TIGER XD1616N

Product Introduction

The Digital Signal Processor equipped with a high-performance 32-bit floating-point DSP processor and A/D ~ D/A converter, support for 24bit/48KHz sampling frequency, high-quality 17-stage preamplifier circuit, DSP processing bus structure built-in feedback cancellation, echo cancellation, noise suppression, automatic mixing and other audio core algorithms, to restore high-quality sound, with a comprehensive matrix mixing function It supports multiple scene presets, scene saving and other functions, and user-friendly control software interface. Mainly used in a variety of large places, can meet the theatre, concert halls, remote video conferencing, stadiums, churches, conference center, theme parks, public sound reinforcement systems and other aspects of the application needs.

Functions

- ✧ Comprehensive matrix mixing function, 48kHz sampling rate, 24-bit 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 component; AFC: Support notch feedback cancellation algorithm, manual and automatic notch feedback canceler, with manual, dynamic, fixed three modes, can automatically capture the feedback point or manually set the feedback point, the maximum support for the capture of 16 feedback points, the maximum depth of inhibition up to 24dB;
- ✧ Inputs per channel: Preamplifier 51dB, Invert, Signal Generator, Expander, Equalizer (5/8/12-band Parametric Equalizer, 10/15/31-band Graphic Equalizer), Compressor, Automatic Gain Control (AGC), AM (Gain Sharing Automatic Mixer or Gating Automatic Mixer), Ducker, Acoustic Feedback Canceler (AFC), Acoustic Echo Canceler (AEC), Adaptive Noise Suppressor (ANS), Parametric Equalizer filter type selectable (Low Shelf, High Shelf, Low Pass Filter, High Pass Filter);
- ✧ Outputs per channel: Delay, Crossover, Equalizer (5/8/12-band Parametric Equalizer, 10/15/31-band Graphic Equalizer), Limiter, Invert, Parametric Equalizer filter type selectable (Low Shelf, High Shelf, Low Pass Filter, High Pass Filter);
- ✧ Display shows the IP address;
- ✧ Test signal generator, Sine wave, Pink Noise, White Noise, frequency and level magnitude selectable;
- ✧ Input phase button, mute button, phantom power button;
- ✧ Output mute button, phase button per channel;
- ✧ One-click display of all function modules;
- ✧ Storing user manual and software with the device;
- ✧ Central control code generated in the control software; power failure automatic protection memory function; one-click reset function;
- ✧ Channel copy, paste, group control function;
- ✧ Supports setting the maximum and minimum volume range for each channel;
- ✧ The same host allows 10 users to manage;
- ✧ Device name can be modified;

- ✧ Editable preset mode, new, delete, modify, one-click reset, preset mode can be stored to computer and one-click reset;
- ✧ With camera tracking function, can independently adjust the preset position of a camera, compatible with VISCA, PELCO-D, PELCO-P three control protocols, support for custom commands;
- ✧ Convenient and fast web control: Built-in web controller for fast operation on Windows, macOS, Linux, Android, iOS and other OS platforms;
- ✧ 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 CD, comes with installation software, a device for a software version, to solve the troubles caused by the loss of the installation CD and the confusion of multiple software versions;
- ✧ Extendable USB interface, support U disk recording and playback, or USB Audio Class, please refer to the actual device;
- ✧ Configuration of bi-directional RS232 interface, RS485 interface, standard Ethernet control interface, 8-channel programmable GPIO control interface (customisable inputs and outputs), level support for external inputs 3.3 ~ 24V;
- ✧ Support 100 groups of scene presets, scene new, save, delete and other functions;
- ✧ Intuitive, graphical software control interface, works on Windows XP, 7, 8, 10, 11, etc.;
- ✧ Support mobile iOS, iPadOS, Android control software.

Note:

1. Only the Dante edition supports Dante network transmission.
2. 2.16 Channel Dante Edition does not support USB functionality

Specification

Category	Parameter Item	Parameter Description
Peripherals	Input Interfaces	4/8/12/16 Analog + 0/8/16 Dante
	Output Interfaces	4/8/12/16 Analog + 0/8/16 Dante
	Display	Displays the device IP address
	Control Interfaces	1 RJ45 interface, 1 RS232 interface, 1 RS485 interface, 8 GPIO control interface
Audio processing	Processor	TI 456MHz FLOPS dual-core 32-bit DSP processor; 24-bit A/D and D/A converter, 48kHz sampling rate
	Input Channel	Functional module: Preamplifier 51dB, Signal Generator, Expander, Equalizer (5/8/12-band Parametric Equalizer, 10/15/31-band Graphic Equalizer), Compressor, Automatic Gain Control (AGC), AM (Gain Sharing Automatic Mixer or Gating Automatic Mixer), Ducker, Acoustic Feedback Canceler (AFC), Acoustic Echo Canceler (AEC), Adaptive Noise Suppressor (ANS), Parametric Equalizer filter type selectable (Low Shelf, High Shelf, Low Pass Filter, High Pass Filter). Physical interface: Balanced Phoenix terminals.
	Output Channel	Functional module: Delay, Crossover, Equalizer (5/8/12-band Parametric Equalizer, 10/15/31-band Graphic Equalizer), Limiter, Parametric Equalizer filter type selectable (Low Shelf, High Shelf, Low Pass Filter, High Pass Filter). Physical interface: Balanced Phoenix terminals.
	Phantom Power	DC 48V
	Input Impedance	Balanced: 20KΩ

	Output Impedance	Balanced: 100Ω
	Common Mode Rejection Ratio	>60dB@50Hz
	Input Dynamic Range	108dB
	Frequency Response	20Hz~20KHz, ±0.2dB
	Noise Floor	-90dBu
	Signal-to-Noise Ratio	106dB
	THD+N	≤0.003% @1kHz, +4dBu
	Channel Isolation	>100dB@1kHz
	Input Range	≤+18dBu (A-Weighting)
	Crossover	Three types of high and low pass filters: Butterworth, Bessel, and Linkwitz-Riley
	Equalizer	Parametric Equalizer: Frequency: 20 to 20kHz, Gain: -15 to +15dB, Bandwidth: 0.02 to 4 Graphic Equalizer: Frequency: 20~20kHz, Gain: -15~+15dB
	System Latency	≤9ms
	Maximum Output Level	18dBu
	Maximum Input Level	18dBu
	Analog/Digital Dynamic Range	114dB
	Digital/Analog Dynamic Range	120dB
	Equivalent Input Noise	≤ -125dBu
General specification	Operating Voltage	AC 100V~240V, 50Hz/60Hz
	Maximum Power	30W

	Operating Temperature and Humidity	0°C~40°C, 10%~90%RH, No condensation
	Chassis	1U
	Product Dimension (L×W×H)	482.4mm×260.5mm×44mm
	Net weight	3.5/4kg
	Package Dimension (L×W×H)	590mm×340mm×110mm
	Gross Weight	4/4.5kg