DMA30N

Remote Bus Network Decoding Terminal

Description

The Remote Bus Network Decoding Terminal is a fully network-based, all-digital analog-to-digital signal processor operating on the TCP/IP transmission protocol. Featuring a dual-network interface redundant design, it can be deployed at any location accessible via the network. This unit can output audio signals locally and is intelligently controlled by the main host system. It requires no local configuration and is ready for operation after simple remote setup via dedicated management software.

Features

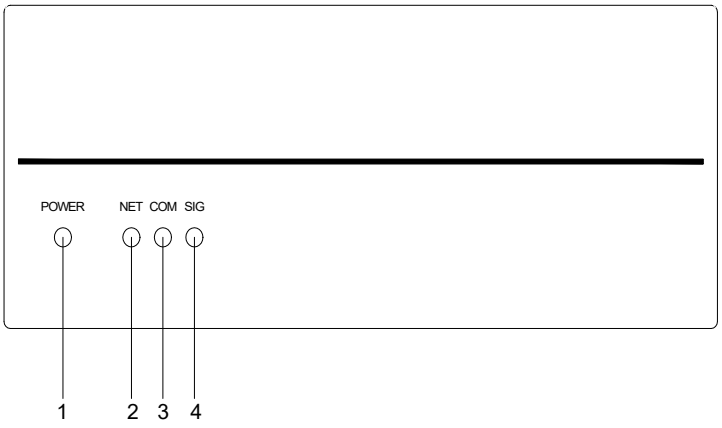
- Features a die-cast aluminum alloy chassis with an acrylic front panel. Includes standard accessories for wall-mounting. With the optional PAVA9002S accessory, 1 to 4 units can be combined into a single 1U-high rack-mounted configuration.
- Powered by the amplifier host bus at DC48V.
- Supports external DC24–48V power supply, which can serve as a backup for bus power.
- Can operate as a standalone decoding terminal when equipped with an optional DC24V power adapter.
- Device discovery, version checking, IP configuration, and firmware upgrades (for SSD212) can be performed via the networked PC client software.
- Includes one RJ45 network port with LED indicator for LAN connection. Dual RJ45 audio and data bus ports for RS485 communication with the amplifier host and transmission of analog audio to the host. Supports daisy-chaining of DMA30W remote control panels and other bus-compatible terminals. Stable transmission up to 300 meters when cascading a maximum of 3 devices per port. Maximum transmission distance of 600 meters when a single device is connected to one port. Note: Only one remote bus network decoding terminal can be connected per amplifier host bus.
- Includes one dual- channel RCA connector supporting two line outputs.
- Compatible with MAG6000 system for network decoding and playback.
- Supports offline scheduled playback with optional or user-provided micro SD card up to 32GB.
- Supports fire alarm integration (EMC) with dry contact output and DC24V output. DC24V output requires the optional DC24V power adapter.

Specifications

Model		DMA30N
Network Decoding (Host MP3 Input)	CH1 Rated Output	1V
	Distortion (1kHz, -10dB/MP3)	≤0.2%
	Gain-Limited Effective Frequency Range (±3dB)	50Hz–20kHz
	Signal-to-Noise Ratio (Low-Pass 30kHz)	≥70dB
Alarm Output (Host Software Control)	COM-24V Output	24V, total current 1A
	COM-SC Output	Short-circuit (<1Ω)
Built-in Monitoring Power		1W
Network		Single port 10M/100M adaptive
DC Power Supply		DC24V-48V
AC Power Supply (Optional Adapter)		AC 220V/50Hz
Standby Power Consumption		5W
Rated Power Consumption		7.5W
Package Dimensions		295×241×115mm
Product Dimensions		165×115×55mm
Gross Weight		1.8kg
Net Weight		0.65kg

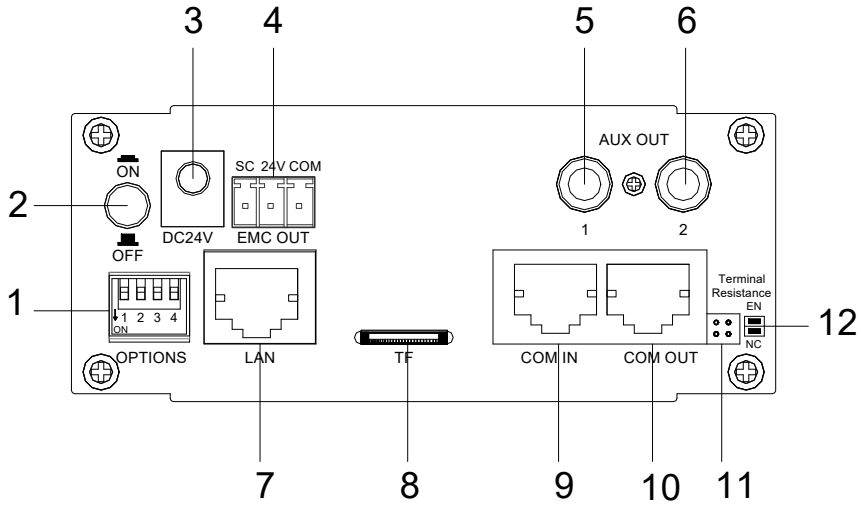
Front / Rear Panel

Front Panel



1. POWER LED: Lights blue when the device is powered on.
2. NET LED: Lights yellow when not connected to a networked host; turns off when connected normally to the networked host.
3. COM LED: In bus mode, lights yellow when not connected to the amplifier host (DMA2240/DMA2500); turns off when connected normally to the amplifier host. In local mode, the LED remains off.
4. SIG LED: Lights green when audio signal is detected.

Rear Panel



1. Interface Communication Protocol DIP Switch

Switch 1: Up = Bus mode (LED will light yellow when not connected to the amplifier host (DMA2240/DMA2500); turns off when connected normally). Down = Local mode (LED remains off).

Switches 2–3: Reserved (enabled for future use).

Switch 4: Within 2 seconds, toggle down then up twice to restore the IP address to factory default. Initial IP address: 192.168.30.11.

2. Power Switch

When turned on, the POWER LED on the front panel lights blue.

3. DC24V Power Input

Supports external DC24–48V adapter for power supply, serving as a backup for bus power. To enable DC24V emergency output, a DC24V power supply must be used (maximum voltage < DC30V).

4. Fire Alarm Linkage Output

Provides 24V output and dry contact output.

When the networked host plays an alarm program, it can output 24V and a short-circuit dry contact.

Note: Without connecting a DC24V adapter, the networked host can only output the dry contact during alarm playback.

5. Line Output 1

6. Line Output 2

7. Network Interface

Used to connect to the networked host.

8. TF Card Slot

9. COM Input Port

Used to connect the amplifier host DMA2240/DMA2500, remote control panel DMA30W, or other bus-compatible devices.

10. COM Output Port

Used to connect the amplifier host DMA2240/DMA2500, remote control panel DMA30W, or other bus-compatible devices.

11. Termination Resistor Jumper

A 2.0mm jumper cap is used to enable or disable the bus termination resistor: When the jumper cap is inserted on the EN pins, the termination resistor is enabled. When the jumper cap is inserted on the NC pins, the termination resistor is disabled.

12. Termination Resistor

EN: Termination resistor enabled.

NC: Termination resistor disabled.