

scion®

Digital Signal
Media & Control Processor

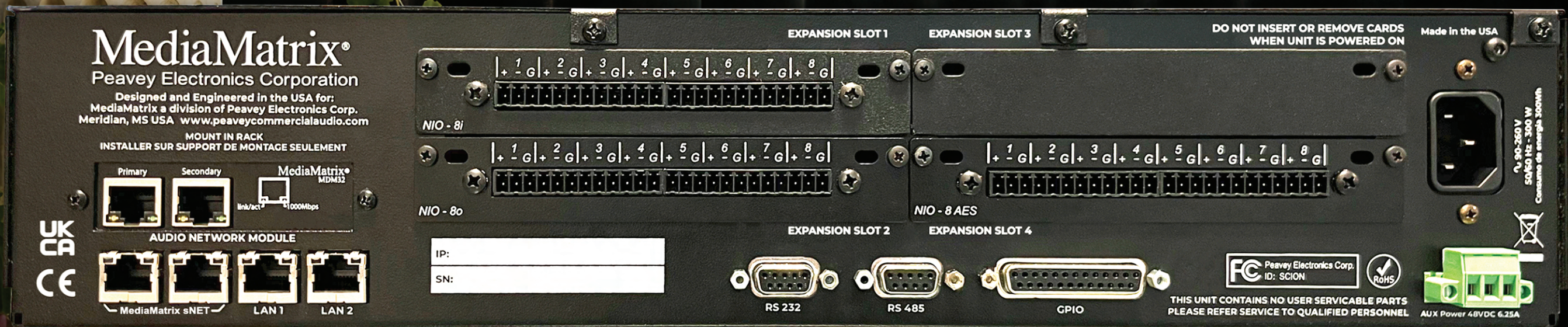


MediaMatrix®

www.peaveycommercialaudio.com

This 3rd generation media and control processor platform delivers enterprise-grade performance built on 30 years of engineering innovation and proven 24/7/365 reliability in mission-critical installations worldwide—providing specifiers and systems designers with the most powerful and scalable DSP-based media and control platform available.

A direct descendant of the industry-proven NION platform, SCION leverages state-of-the-art integrated DSP and control processor architecture to deliver a truly scalable, specification-driven solution. Backward compatibility with NION and MediaMatrix 'N' series audio bridges and controllers protects existing infrastructure investments while providing seamless migration paths for legacy systems. Design, configuration, and commissioning are accomplished through the award-winning nWare software suite—providing systems designers with comprehensive control over every aspect of deployment.



SCION can be configured with multiple dual-core digital signal processors paired with dedicated control processing units, delivering over 5X the processing capacity of its predecessor. This high-performance, low-power architecture supports demanding enterprise applications from a single 2RU chassis: up to 32 channels of local analog I/O, 64 channels via modular optional protocol audio network card slots, and a massive 512x512 channel matrix utilizing MediaMatrix sNET™ —a standards-compliant AES67 streaming protocol—via optional factory-installed sNET cards with integrated dual-redundant Gigabit managed network switching.

A SCION base unit configuration includes a single DSP-CPU card, OLED display with precision jog dial interface, 48V DC backup power supply, plus legacy serial and GPIO control. The platform scales seamlessly with the addition of a second DSP-CPU card, unlocking full 512×512 MediaMatrix sNET network channel capacity when specified with the optional sNET interface card supporting next-generation AES67-RAVENNA® protocols.

Factory-integrated optional MDM32 Dante®/CobraNet® interface cards are available for enhanced connectivity, while the complete NIO I/O card family can be field-installed—providing consultants and systems integrators with unparalleled specification flexibility to precisely match system requirements to client needs and ensuring optimal performance and cost-efficiency for each unique installation.



Specifications

SCION® Media & Control Processor



SCION Base Unit Features:

Front panel: OLED display, jog dial, LED status indicators • Four (4) A/D card slots • Audio network module slot
Dual LAN ports for MediaMatrix nWare 3 configuration and control • Serial and GPIO ports • 48V DC redundant power supply • Onboard DSP-CPU: up to 32 analog or 64 digital I/O (NIO series cards) • Network audio expansion: 128x128 channels (optional sNET card)

OPTIONAL EXPANSION

DSP-CPU Cards: Supports expansion with additional card
Network Audio Expansion: Via installed sNET card: 256x256, 384x384, or 512x512 I/O channels
(** Requires 2 DSP-CPU cards installed)
Audio Network Module: CobraNet CM1 or Dante MDM32 card
Local audio I/O: Via Nio series of I/O cards:
- Nio 8i | Nio 8o | Nio 8ML II
- Nio 4x4 | Nio AES | Nio AEC*

CHANNEL CAPACITY / STORAGE

Network Audio: Via MediaMatrix sNET - AES67 card
128 x 128 channels (native support)
> 256 x 256 to 512 x 512 i/o **
Audio Network Module: 32 x 32 via CobraNet or Dante
Local audio I/O: 64 digital | 32 Analog
AEC*: >64 channels configurable tail times
Media Playback*: >64 channels
Media Storage: 32GB (optionally expandable)

FRONT PANEL

Display: 3.1" - 256px x 64px OLED
Control: Navigation Jog Dial
Status LEDs: LAN | Power | sNET | System Mute
Audio Network | Fault

REAR PANEL

Ethernet: LAN1: 1GbE | LAN2: 1GbE (managed)
MediaMatrix sNET™: Dual 1GbE (managed)
RS232: RS-232 general purpose
RS485: EIA-422/485 Multi-drop
GPIO: Digital I/O + Analog Input via
- 25 Pin D-Sub

MECHANICAL

Dimensions: W 19" (482mm) - H 3.5" (89mm) - D 17" (43mm)
Weight: 28 lbs / 12.7 kg net weight
Operating Temp: - 4 to 122°F (-20 to 50°C) - non condensing
Mounting: 2RU EIA rack package
Power: 90V - 260V 50/60 Hz 300W A/C
Auxiliary power: 48V DC external power supply

MediaMatrix®

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