

scion™

The New DSP Media
and Control Platform



MediaMatrix®

www.peaveycommercialaudio.com

MediaMatrix® proudly introduces SCION®, the all-new and powerful Media and Control processor platform. This 3rd generation MediaMatrix digital signal processor (DSP) calls upon 30 years of engineering excellence in both hardware and software design together with proven 24-7-365 reliability in the most demanding and prestigious venues globally delivering the most powerful DSP based media and control system available today.

SCION, a descendant of the legendary MediaMatrix NION® platform, transcends its predecessor leveraging the latest cutting-edge integrated DSP and Control Processor architecture providing a scalable, 'Build it Your Way' media and control processing system fully backwards compatible with NION and the 'N' series of MediaMatrix audio bridges and controllers being configured and controlled from the award winning nWare™ software suite.

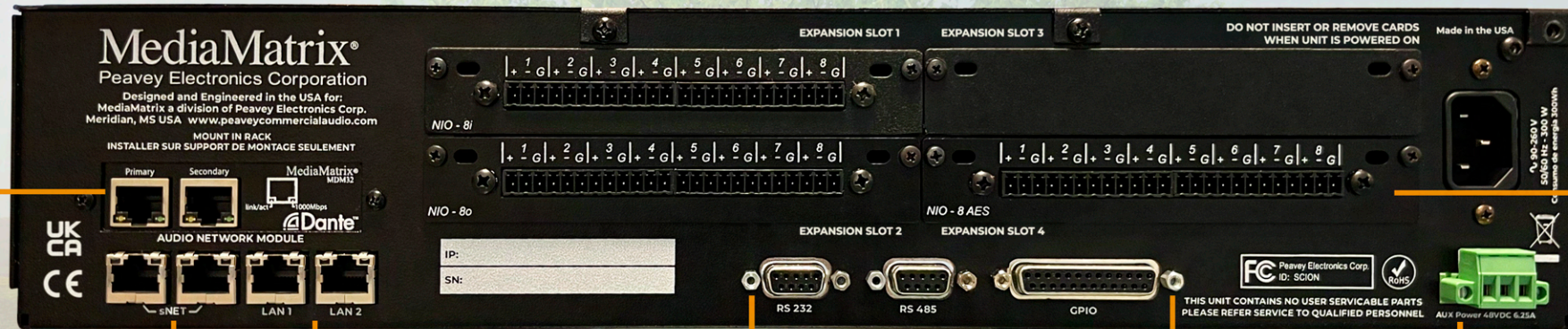
The Power of SCION

At the heart of a SCION is the ADI SHARC® dual core Digital Signal Processor (DSP) with ARM® Cortex® Processing Unit (CPU) high performance low-power consumption application processors. Having more than 5 times the processing power of its predecessor the NION®, with optional dual DSP-CPU boards. SCION is capable of supporting, from a single 2RU device, up to 32 channels of local analog I/O plus 64 channels via an audio network card slot, and an enormous 512i x 512o channels utilizing MediaMatrix sNET™, an AES67 streaming audio protocol, via an optional factory installed sNET card and built-in dual redundant IEEE 802.3 compliant Gbit managed switch network ports.

The SCION frame can be configured from an entry level local analog/digital device with network control to a fully featured powerhouse with front panel LCD/Control expanded local and network audio I/O and control or something in-between with optional hardware modules giving the consultant, integrator, and end-user unrivaled fit for purpose flexibility.



SCION LCD/CONTROL PANEL SHOWN (OPTIONAL)



Audio Network Module
Provides support for an additional 32 input x 32 output audio channels via optional CobraNet-CM1 or MDM32-Dante cards. While offering legacy protocol backwards compatibility, the SCION's audio network card slot has been engineered with future protocols and standards in mind offering a migration path towards sNET - AES67 and emerging protocols and standards.

Analog/Digital and Network Audio I/O
SCION has extensive analog, digital and network streaming audio I/O and control capabilities including four (4) local expansion slots supporting connectivity via the Nio™ series of analog and digital audio interface cards.

sNET™ Network Audio Expansion
SCION features a built-in dual redundant IEEE 802.3 compliant Gbit managed network ports allowing greater audio channel expansion over a data network utilizing the DSP-CPU processing power. Optional sNET-280 or sNET-512* cards allow the SCION to support 280 x 240 or up to 512 x 512 input/output audio channels respectively. *denotes: requires 2 x DSP-CPU boards installed.

Dual Control Lan Ports
Dual Control ports allow for redundant or multi-domain connectivity and control for greater system expansion capability including future Media transport and control functionality.

GPIO and Serial Control
Ensuring support for legacy installations and simple migration, SCION continues to support proven robust general purpose input output (GPIO) and serial RS232 and RS485 control interfacing via the familiar DB25 and DB9 pin connectors.

Auxiliary Power Supply
With MediaMatrix systems installed in tens of thousands of installations world-wide and many of these being for mission critical or life-safety applications, typically requiring redundant power supply to critical equipment, a further addition to the SCION is a rear panel auxiliary power connection supporting low voltage DC power from an optional external power supply ensuring 24-7-365 robust reliability for decades to come.

MediaMatrix sNET™

The SCION Media and Control Processor, including all next generation MediaMatrix 'S' series networkable products, natively support the new MediaMatrix sNET™ real-time streaming audio protocol being fully compliant with the AES67 technical standard for audio over IP and audio over Ethernet AoE.

The sNET protocol is an integral part of the new SCION media control expanded platform allowing for virtually unlimited real-time distribution of audio channels and future media content across local and wide area network environments by utilizing standardized network protocols and technologies that can coexist in existing network infrastructures.

Additionally, being fully qualified AES67 and SMPTE ST-2110 compliant, sNET is further compatible with devices streaming Ravenna® - including Dante® devices with AES67 mode enabled.

Legacy Support

Sharing in some strong elements of DNA with NION paves the way for backwards compatibility and convergence, allowing consultants to design system upgrades and fresh projects with the confidence of a simplified and seamless migration path thanks to an nWare™ 3.0 new dual-compiler tool enabling SCION and NION nodes to coexist in the same project. NIO™ Card-based I/O is also compatible with SCION providing welcomed continuity, quality and flexibility.

As the world's first digitally configured and controlled distributed audio system, MediaMatrix has grown from roots of wisdom, through decades of understanding. SCION signifies innovation in full bloom – a technology and ideal that has been nurtured over time and is ready to flex its branches to accommodate the world's most demanding commercial audio needs.

SCION™ Media and Control Processor

Specifications

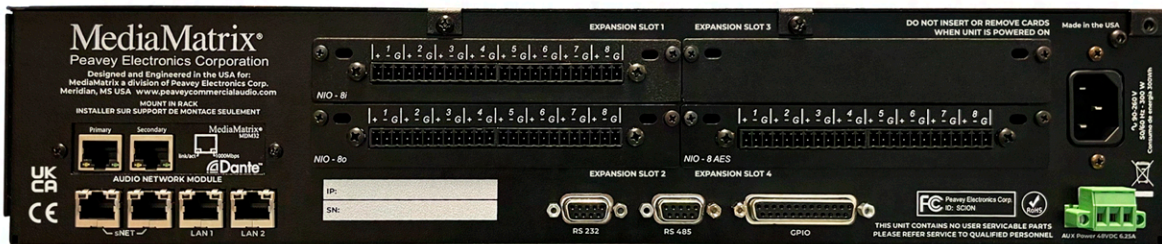
PRELIMINARY



Full Featured



Entry Level



BUILD IT YOUR OWN WAY

- DSP-CPU Cards: 1 or 2 cards
- Network Audio Expansion: sNET 280 card (280 x 240) or sNET 512 (512 x 512)
- Audio Network Module: CobraNet CM1 card or Dante MDM32 card
- Local audio I/O: Via Nio series of I/O cards
- Front Panel Control: LCD and Navigation button assembly
- Auxiliary Power Support: Back-up power module

FRONT PANEL

- LCD: 3" TFT - 480 x 854 pixels 400 nits
- Control: 5-way Navigation Switch (optional)
- LED Status: LAN, Power, sNET, Mute, Audio Network, Fault

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

CHANNEL CAPACITY

- Network Audio: 512 x 512 / 280 x 240 via sNET - AES67
- 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* 128 channels
- Media Storage Up to 512GB

REAR PANEL

- Ethernet: LAN1: 1GbE + LAN2: 1GbE managed
Dual 1GbE managed
- sNET™
- RS232: RS-232 general purpose - 9 Pin D-Sub (F)
- RS485: EIA-422/485 multi-dropped - 9 Pin D-Sub (F)
- GPIO: Digital I/O + Analog Input software selectable
- 25 Pin D-Sub (F)

- Power: 90v > 260v 50/60 Hz 300W A/C
- Auxiliary power 48V DC external power supply (optional)

* Denotes 2 x DSP-CPU cards loaded



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