

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.

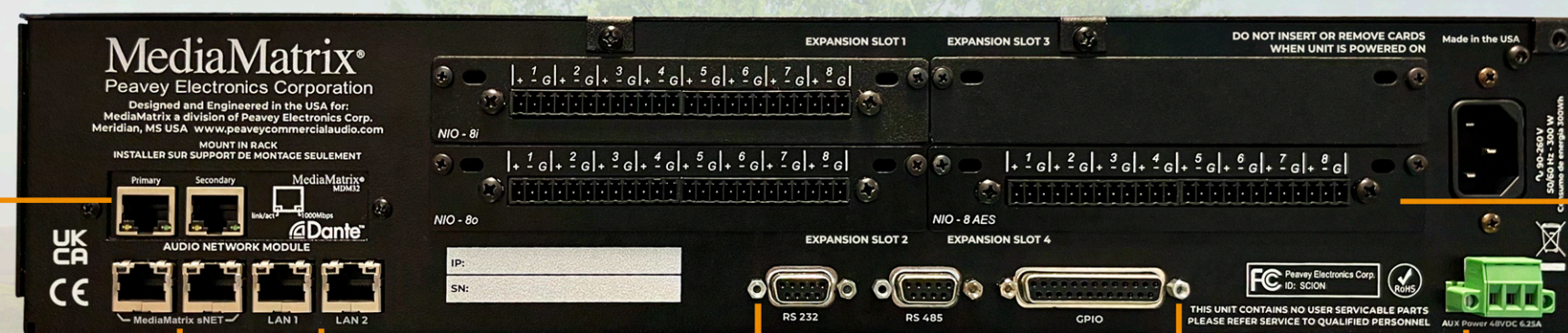
The Power of SCION

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 is configured with a single DSP-CPU card, OLED display with Jog Dial and 48v DC back-up power supply as standard. The frame can be upgraded with an additional DSP-CPU card to leverage up to an incredible 512i x 512o MediaMatrix sNET™ network channels utilizing the optional sNET interface card. As with NION, the family of NIO I/O cards and MDM32 Dante/CobraNet Interface can also be specified and fitted at factory or alternatively in the field giving the consultant, integrator and end-user unrivaled fit for purpose flexibility.



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.

MediaMatrix 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 MediaMatrix sNET-256 card; software license upgradable to sNET 384 or sNET 512. Audio input/output channels range from 128i x 128o with a single DSP-CPU card up to 512 x 512ch with two DSP-CPU cards 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 steaming 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, MediaMatrix sNET is further compatible with devices streaming RAVENNA® - including Dante® devices with AES67 mode enabled.

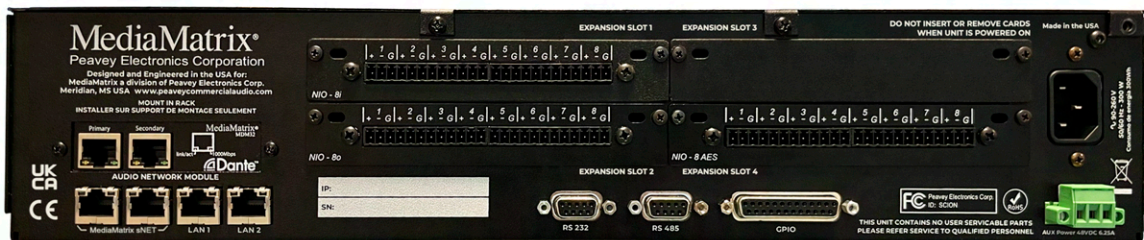
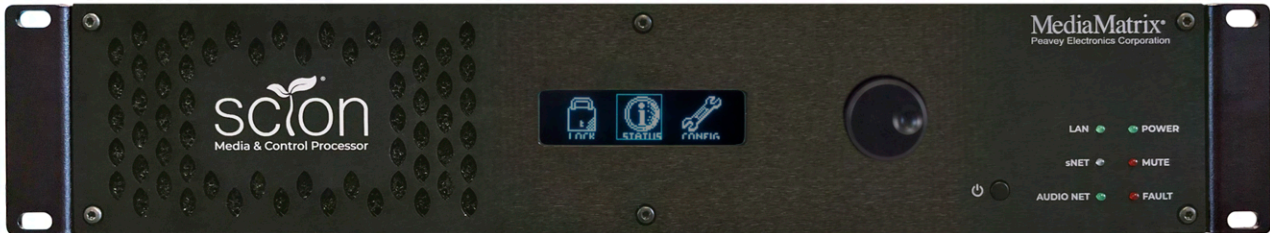
Legacy Support
Sharing in some strong elements of DNA with NION paves the way for backwards compatibility and convergence, allowing consultants to design system upgrades and fresh projects with the confidence of a simplified and seamless migration path thanks to an nWare™ 3.0 new dual-compiler tool enabling 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



BUILD IT YOUR OWN WAY

DSP-CPU Cards:	1 or 2 cards
Network Audio Expansion:	sNET 256 card, expandable to 384 and 512 (512i x 512o)**
Audio Network Module:	CobraNet CM1 or Dante MDM32 card
Local audio I/O:	Via Nio series of I/O cards

FRONT PANEL

Front Panel Control:	LCD and Navigation button assembly
LCD:	3.1" - 256 x 64 OLED
Control:	Push button jog dial
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 / 384 x 384 / 256 x 256 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*	>64 channels
Media Storage	32GB

REAR PANEL

Ethernet:	LAN1: 1GbE + LAN2: 1GbE managed
MediaMatrix sNET™	Dual 1GbE managed
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

* Denotes 2 x DSP-CPU cards loaded ** (1 x DSP-CPU card supports max 128i x 128o Ch)

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