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The world of entertainment lighting is growing by leaps and bounds; new technology is entering the field at an amazing rate to enable faster, more powerful and more feature-rich communication between lighting system components than ever.

Ethernet technology is primarily used to transmit lighting control signals from one point to another, achieved by utilizing equipment such as control consoles and dimmer racks that use either Ethernet signals as its primary form of communications, or devices known as *Gateways* and/or *Nodes*. At their most basic level of functionality, these devices translate a DMX signal to an Ethernet signal and back. In terms of capacity, most manufacturers' network protocols are capable of transmitting 64 DMX universes over a single piece of Category 5 Cable. This allows for *millions* of levels to be transmitted simultaneously via a switched Ethernet Network.

ACN (Architecture for Control Networks) is a suite of network protocols for entertainment control being developed by ESTA (www.esta.org) to allow communication between varying manufacturer devices. This new standard may replace DMX as the control protocol for lighting systems and will be used for communicating with more complex devices like video playback servers (media servers) and audio mixers.

Another Industry shift is that of console expansion via nodes. Nodes are increasingly flexible, with configurable ports which can send DMX512 signals and RDM. The ports can also be used as either input or output.

Networking is the future of entertainment technology, and it's here now! Mainstage has extensive experience designing and installing these systems and will work with you to sort out what is right for you while making the most of this technology. **Contact a Mainstage office for more information.**

ETC

NET3 DMX GATEWAY

Built for both ETCNet2™ protocols and ACN. Send/receive DMX512 digital signals as well as RDM via the configurable ports. Each Gateway may be configured with one to four ports, with each port defined as an output or an input. Available for use as a portable table-top unit, with hanging hardware, or as a rack-mount device.



NET3 SHOW CONTROL GATEWAY

Forwards MIDI and SMPTE signals over a network. Multiple Show Control Gateway connections simultaneously provide access to multiple SMPTE and MIDI time-code generators, and a connection for MIDI show control. Designed to be plug and play with any Eos-family control system.



NET3 TWO PORT GATEWAY

Built for both ETCNet2™ protocols and ACN. Ethernet-native. Uses bidirectional communication with other network devices to send/receive DMX512 digital signals (as well as RDM, depending on the software mode) via configurable ports. Delivers two ports of DMX defined in software as an output or an input. Available for use as a portable table-top unit, with hanging hardware, or as a wall-mount device.



NET3 ONE PORT GATEWAY

Built for both ETCNet2™ protocols and ACN. Send/receive DMX512 digital signals as well as RDM via the configurable port. Delivers one port of DMX defined in software as an output or an input. Available for use as a portable table-top unit, with hanging hardware, or as a wall-mount device.



NET3 I/O GATEWAY

Built for Net3™ protocol powered by ACN. The I/O Gateway forwards switch closures and RS232 signals via connectors on the rear of the unit to Net3 control systems. Available with either a rack-mounting kit or a hanging-bracket kit.



NET3 REMOTE VIDEO INTERFACE UNITS (RVI)

2U 19" rackmount device built for remote video or local programming functions with Eos, Ion, Congo and Congo jr control systems. Includes keyboard/mouse, DVI Y cable, (2) DVI-I to VGA adapters. USB multipurpose (4 ports).



Pricing subject to change without notice. Check our website for updated catalog pricing.

www.mainstage.com

STRAND LIGHTING

N21 SHOWNET NODES

Compact and flexible. Each node features two or four DMX connectors that may dynamically be configured for input or output operation. Based on a 32 bit ARM processor all N21 nodes utilize the Linux operating systems for stable 10/100BT operation. Nodes do not



require special software and may be configured with a web browser. Node status, Node ID, and DMX port identification are available on the integral LCD display. All Strand ShowNet nodes feature advanced DMX patching permitting any range of 512 numbers to be selected for each DMX port. Priority patching with HTP plus priority assignments available.

PATHWAY CONNECTIVITY

DMX REPEATER

An essential component of any DMX distribution system, the opto splitter permits multiple wiring configurations while isolating and protecting connected equipment from harmful electrical faults. Pathway optos feature useful DMX test functions that help you resolve any issues quickly. Universal input 100-240 VAC, 50/60 Hz.



DMX REPEATER PRO

The DMX Repeater Pro brings ethernet-type features to DMX-only networks. RDM-Splitter mode fully supports the bi-directional RDM 'get/set' commands on all eight ports. DMX Hub mode which allows any port to become the input automatically while the rest remain as outputs - no DMX patch bay required. Universal input 100-240 VAC, 50/60 Hz. 2500V opto-isolation between all ports and 250V fault protection

INSTALLATION REPEATERS

Opto-splitters for permanent installations, provided in NEMA-1 enclosures, complete with conduit knockouts and terminal strip connections for fast, easy installation. Modules are mounted and pre-wired, so they are ready to install when shipped. UL listed, DIN rail universal input 100-240 VAC, 50/60 Hz.



RECEPTACLES

Custom receptacle plates that can ship from stock! Faceplates and inserts can be easily arranged in any configuration, to suit your requirements. Available in stainless steel or matte black finish.

