

# A128/A64

## 128 x 128 / 64 x 64 Analog Audio Modular Routers



### Key Features and Benefits

- ⊕ High Density 9RU or 5RU frame (9RU is required for 128x128 routers)
- ⊕ Low power consumption
- ⊕ 32x32 module cards
- ⊕ Easy upgradability
- ⊕ Redundant load sharing power supplies
- ⊕ Redundant system controllers
- ⊕ Independent control of two 64x64 sub-matrixes (for 128x128 router)
- ⊕ No active component on rear panel
- ⊕ All active components hot-swappable and front loaded
- ⊕ Serial interface and TCP/IP LAN connectivity
- ⊕ Panel bus with TCP/IP LAN connectivity
- ⊕ SNMP agent
- ⊕ Extensive surveillance/alarms/logging
- ⊕ Flash power down memory

### Technical Specifications

#### INPUTS

- TYPE : BALANCED
- CONNECTOR : DB25 FEMALE
- IMPEDANCE : > 10KΩ
- CMRR: > 60DB
- MAX. LEVEL: +23DBU

#### OUTPUTS

- TYPE : BALANCED
- CONNECTOR : DB25 FEMALE
- IMPEDANCE : < 66Ω
- CMRR: > 40DB
- MAX. LEVEL: +23DBU

#### PERFORMANCE

- FREQUENCY RESPONSE: 20HZ – 125KHZ (-3DB), 20HZ-20KHZ +/-0.1DB
- ADJACENT CROSSTALK: > 100DB, 20HZ-20KHZ
- SNR: < -90DBU(A)
- THD+N: <0.01% AT 6DBU
- CLICK NOISE: <-50DBU

### Ordering Information

Each of the frame versions stated in the ordering information includes the cross-point cards for the selected size and one power supply module. A Syscon-SM system controller card MUST be ordered for each router (the controller may also be ordered with various 3rd party interfaces).

- Other options include:
- Redundant power supply module
  - Redundant Syscon-SM
  - Single/redundant GYDA-M128 optional router control module for SNMP and Web-based interaction

### Ordering Information for AXXXX Models

<p><b>DESCRIPTION:</b> Network 64 series frame for analog audio, 5RU, equipped 32x32, expandable up to 64x64 in steps of 32x32. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A3232S</p>	<p><b>DESCRIPTION:</b> Network 128 series frame for analog audio, 9RU, equipped 96x96, expandable up to 128x128 in steps of 32x32. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A9696M</p>
<p><b>DESCRIPTION:</b> Network 64 series frame for analog audio, 5RU, fully equipped 64x64. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A6464S</p>	<p><b>DESCRIPTION:</b> Network 128 series frame for analog audio, 9RU, fully equipped 128x128. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A128128M</p>
<p><b>DESCRIPTION:</b> Network 128 series frame for analog audio, 9RU, equipped 32x32, expandable up to 128x128 in steps of 32x32. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A3232M</p>	<p><b>DESCRIPTION:</b> X-point card for modular A family. Complete, includes input and output drivers. For upgrades in steps of 32x32 and as a spare part.</p> <p><b>ORDER NO.:</b> NTW-XC-A-M3232</p>
<p><b>DESCRIPTION:</b> Network 128 series frame for analog audio, 9RU, equipped 64x64, expandable up to 128x128 in steps of 32x32. Incl. Single Power Supply</p> <p><b>ORDER NO.:</b> NTW-A6464M</p>	

# AD128

## 128 x 128 Digital Audio Modular Routers



### ■ Key Features and Benefits

- ⊕ High density 5RU frame
- ⊕ Low power consumption
- ⊕ 64x64 module cards
- ⊕ Easy upgradeability
- ⊕ Redundant load sharing power supplies
- ⊕ Redundant system controllers
- ⊕ Independent control of two 64x64 sub-matrixes
- ⊕ No active components on rear panel
- ⊕ All active components hot-swappable and front loaded
- ⊕ Serial interface and TCP/IP LAN connectivity
- ⊕ Panel bus with TCP/IP LAN connectivity
- ⊕ SNMP agent
- ⊕ Extensive surveillance/alarming/logging
- ⊕ Flash power down memory

### ■ Technical Specifications

#### INPUTS

- Type : balanced
- Connector : DB25 female
- Impedance : 110 Ω
- Signal level: > 0.2-7V p-p

#### OUTPUTS

- Type : balanced
- Connector : DB25 female
- Impedance : 110 Ω

#### PERFORMANCE

- Sampling rates: 32-96kHz
- Switching mode: Asynchronous
- Jitter: typical 800ps

#### REFERENCE

- Number: 2
- Connectors: 75 Ω BNC female, loop-thru
- Format: NTSC or PAL Black Burst or HD Tri-Level acc. to SMPTE-274M, SMPTE-296M

### ■ Ordering Information

Each of the frame versions stated in the ordering information includes the cross-point cards for the selected size and one power supply module. A Syscon-SM system controller card MUST be ordered for each router (the controller may also be ordered with various 3rd party interfaces).

Other options include:

- Redundant power supply module
- Redundant Syscon-SM
- Single/redundant GYDA-M128 optional router control module for SNMP and Web-based interaction

### ■ Ordering Information for ADXXXX Models

**DESCRIPTION:** Network 128 series frame for digital audio, 5RU, equipped 64x64, expandable up to 128x128 in steps of 64x64. Incl. Single Power Supply

**ORDER NO.:** NTW-AD6464M

**DESCRIPTION:** X-point card for modular AD family. Complete, includes input and output drivers. For upgrades in steps of 64x64 and as a spare part.)

**ORDER NO.:** NTW-XC-AD-M6464

**DESCRIPTION:** Network 128 series frame for digital audio, 9RU, fully equipped 128x128. Incl. Single Power Supply

**ORDER NO.:** NTW-AD128128M

# MODULAR CONTROL PANELS

## Customizable Control Panels

Three powerful remote control panels are available for Network Series Modular 64x64 and 128x128 routers. These panels allow a high level of customization of the interface. Stacks of three different control panels can be created to provide a high level of freedom in the design of the control interface.

Each control panel features 16 GPI inputs and 16 GPI outputs, and this allows third party equipment to be controlled directly from the panels. This also allows alarming, tally lights, and similar functions. The GPI inputs can be used to interface to external push buttons or contact closures to allow router control from another device.



Programmable Control Panel with 44 buttons incl. GPI



Programmable Control Panel with 16 LCD buttons, incl. GPI



Master Display Panel with 64 buttons and large display

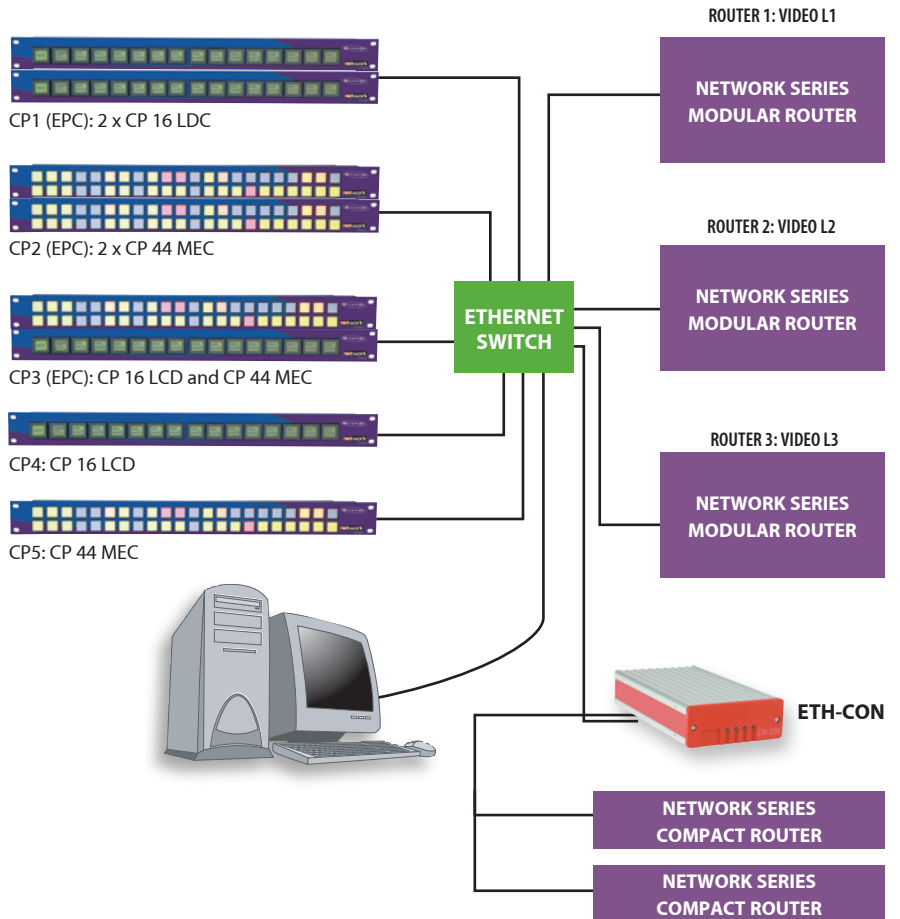
### Modular Control Panel Features

Each key can be configured to a wide range of different functions: Multi-Level, Multi-Source, and Multi-Destination. Features include:

- ⊕ X-Select, Y-Select
- ⊕ Lock, Protect, Access restrictions
- ⊕ Function-keys like Level Select, Take, Panel Enable
- ⊕ Salvos/pre-sets
- ⊕ Group switching
- ⊕ GPI/GPO control

### Unparalleled Control

The Modular Control Panels feature full TCP/IP connectivity between routers and control panels, allowing the use of standard Ethernet LAN.



# ETH-CON

## Customizable Ethernet gateway

The ETH-CON Ethernet Gateway and Protocol converter enables operators to easily control Network Series Modular routers and Compact routers using Modular control panels over a standard TCP/IP network.

This highly scalable system is capable of supporting the largest routing systems using a LAN infrastructure. To ease integration with existing control systems, the ETH-CON can also perform third party protocol conversion.

### Features and benefits

- ⊕ TCP/IP over 100Base-TX fast Ethernet on RJ45
- ⊕ Two serial ports supporting RS-232 and RS-422 on DB9
- ⊕ Supports an unlimited number of Network Series Modular control panels with Ethernet and TCP/IP
- ⊕ Controls Network Series compact range of routers and panels
- ⊕ Provides Third Party protocol interfaces (Pro-Bel, Thomson Triton, etc)

