

Overview

Codan Broadcast brings the future of routing to today's NK Series family of routing switchers with the 3Gb/s capable NK-3G family of 3G/HD/SD Routing Switchers.

The concept is simple. Select the routing frame size that most suits your current and future needs. There are three to choose from – 72x72, 144x144 and 288x288. Then, as required, add any of the advanced options (listed overleaf) to provide the features and capabilities needed.

The 3Gb/s routing solutions are in complete harmony with the concepts of the NK Series family. It is only necessary to buy the system components and options needed. Hardware upgrades can be done at any time in the field without taking the routing system off line.

Each of the NK-3G routing switcher frames share many characteristics. Each can be populated from 8x8 up to the frame's maximum size in groups of 8. I/O cards are common across the range. Each router also offers a number of duplicate output slots, ideal for applications that require extensive monitoring. I/O boards, matrix cores, power supplies and cooling fans are all hot swappable. Redundancy options for matrix cores, power supplies and control interfaces are available. All offer system status monitoring of input and output signals, power supplies, temperature, fan speed, and reference via web browser or Phoenix Control Surface.

NK-3G72

The NK-3G72, in 4RU, is a compact and inexpensive router. Housing 9 input cards, 9 output cards and 2 duplicate output card slots (16 duplicate outputs) this is the most powerful mid-sized router imaginable.

NK-3G144

The NK-3G144, in 10RU, houses up to 18 input cards, 18 output cards, 4 duplicate output card slots (32 outputs), and dual redundant power supplies. Drawing less than 500W fully populated, this is a truly powerful large format router.

NK-3G288

The NK-3G288, in 20RU, provides maximum I/O capacity – up to 288 x 288 inputs and outputs, with up to 8 duplicate output card slots (64 outputs). A combination of switching capacity, features and pricing unmatched in the industry.

Features

- ▶ Automatically switches 3G/HD/SD at data rates from 143Mb/s to 3Gb/s
- ▶ Up to 288x288 I/O expandable in groups of 8
- ▶ Up to 64 duplicated outputs
- ▶ Supports SMPTE standards 424M, 344M, 292M, 259M and DVB-ASI
- ▶ Hot swappable power supplies, I/O cards, matrix cards and fans
- ▶ Redundancy options for power supplies, control interface and matrix switching cores
- ▶ System status monitoring of input and output signals, power supplies, temperature, fan speed, and reference via web browser or Phoenix Control Surface
- ▶ GPI Alarm output for Power Supplies, I/O Power, Matrix Power, Remote Power, CPU Power, Fan Failure and Over Temperature alarm conditions
- ▶ Fully compatible with existing NK Series product range

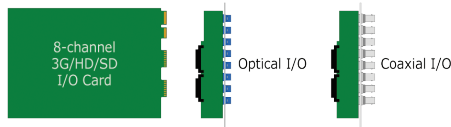
3G to HD to SD Down Conversion Output Card

A purpose designed output card performs full 10-bit down conversion from 3Gb/s to HD to SD with audio re-embedding.

This card is ideally suited for applications that require extensive monitoring, particularly if used in a duplicate output slot.



Coaxial or Fibre Connector Options for Input and Output Cards

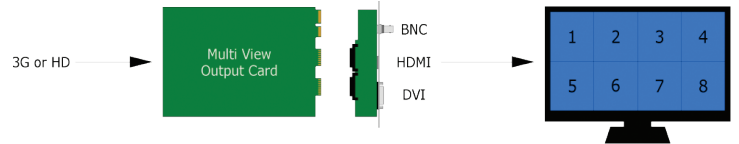


Users can select coaxial or fibre interfaces to the routing switcher (in groups of 16 inputs or outputs) by simply changing the rear connector on standard, Downstream Keying or Clean switch I/O cards

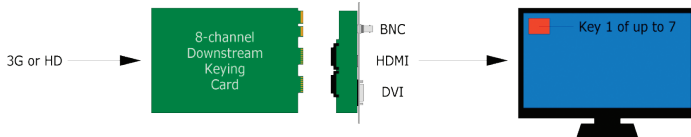
Multi-view Output Card with HDMI, DVI-I and BNC connectors

A purpose designed output card displaying 8 outputs in a 4x2 configuration with BNC, HDMI and DVI outputs.

This card is ideally suited for applications that require extensive monitoring, particularly if used in a duplicate output slot.



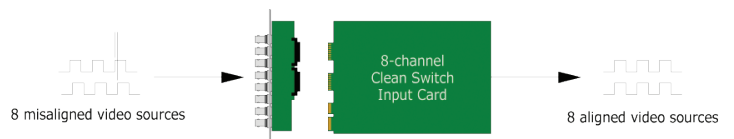
Downstream Keying Output Card



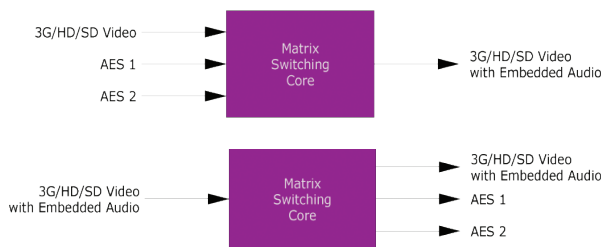
A purpose designed output card that overlays up to seven keys onto a single video stream.

Clean Switch

A clean switching option ensures seamlessly switched, glitch free, presentation quality transmissions. Purpose-designed buffering input cards and advanced switching management software provide alignment.



Embedding and De-embedding



Utilising the router's multi data rate crosspoint architecture and purpose designed I/O cards, the routing switcher can deembed to separate outputs one group of AES from 3G/HD/SD inputs. Similarly the routing switcher can embed from separate inputs one group of AES into a 3G/HD/SD output.

Subject to change without notice.