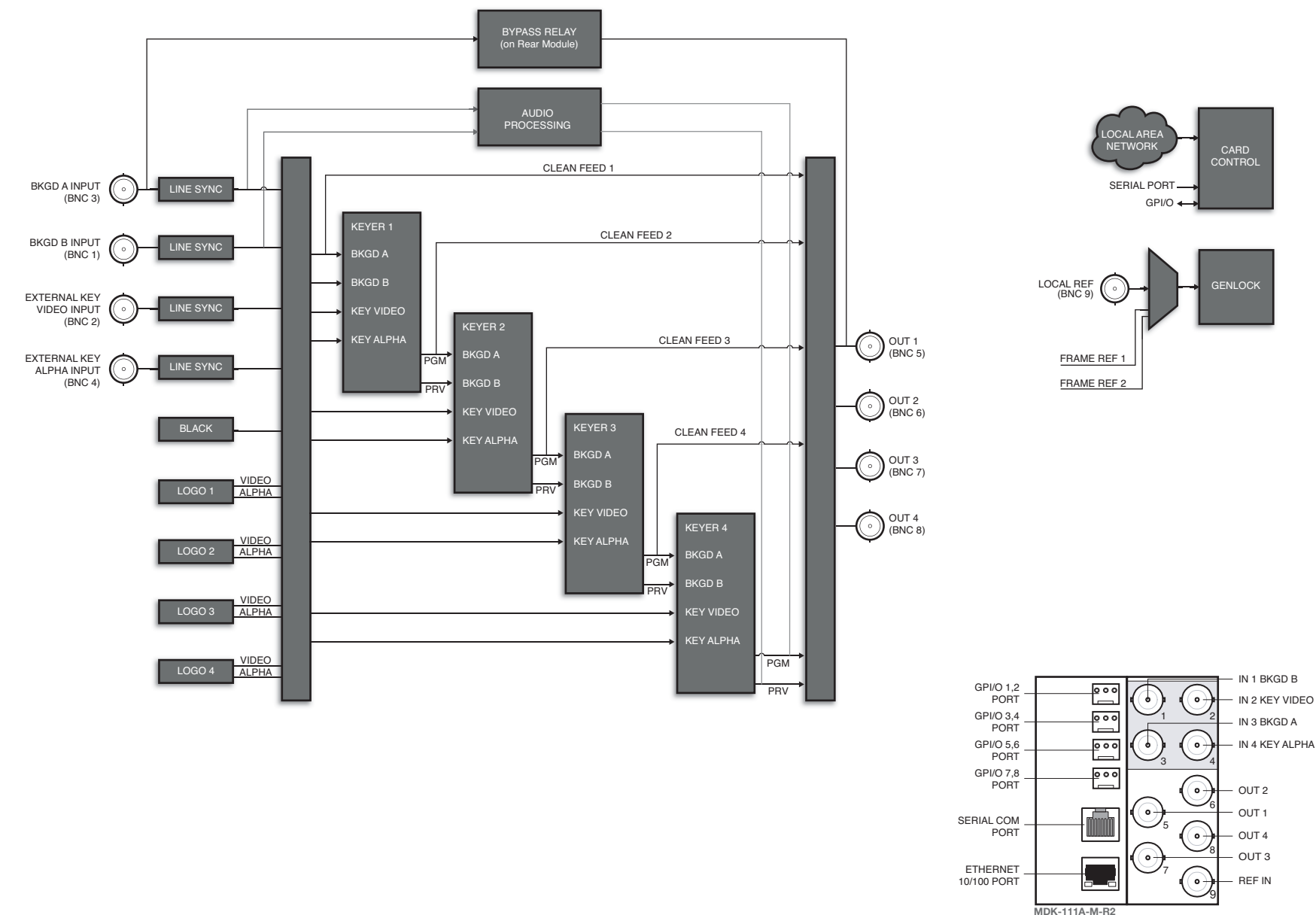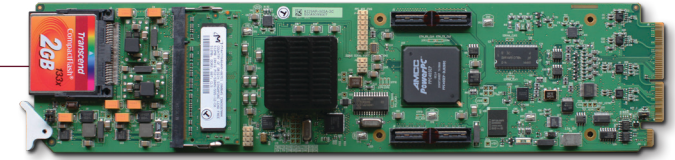# MDK-111A-M HD SD

HD / SD SDI Mixer / Keyer with Internal Logo Insertion

4 keyers with simultaneous background mixing, external keying, 3 internal animated logo keys, fade-to-black – with preview.

BYPASS RELAY
(on Rear Module)

AUDIO
PROCESSING

LOCAL AREA
NETWORK

CARD
CONTROL

SERIAL PORT

GPI/O

CLEAN FEED 1

BKGD A INPUT
(BNC 3)

LINE SYNC

BKGD B INPUT
(BNC 1)

LINE SYNC

KEYER 1

BKGD A

BKGD B

KEY VIDEO

KEY ALPHA

CLEAN FEED 2

LOCAL REF
(BNC 9)

GENLOCK

EXTERNAL KEY
VIDEO INPUT
(BNC 2)

LINE SYNC

KEYER 2

BKGD A

BKGD B

KEY VIDEO

KEY ALPHA

CLEAN FEED 3

FRAME REF 1

FRAME REF 2

EXTERNAL KEY
ALPHA INPUT
(BNC 4)

LINE SYNC

PGM

PRV

OUT 1
(BNC 5)

BLACK

KEYER 3

BKGD A

BKGD B

KEY VIDEO

KEY ALPHA

CLEAN FEED 4

OUT 2
(BNC 6)

LOGO 1

VIDEO
ALPHA

PGM

PRV

KEYER 4

BKGD A

BKGD B

KEY VIDEO

KEY ALPHA

OUT 3
(BNC 7)

LOGO 2

VIDEO
ALPHA

OUT 4
(BNC 8)

LOGO 3

VIDEO
ALPHA

LOGO 4

VIDEO
ALPHA

PGM

PRV

PGM

PRV

GPI/O 1,2
PORT

GPI/O 3,4
PORT

GPI/O 5,6
PORT

GPI/O 7,8
PORT

SERIAL COM
PORT

ETHERNET
10/100 PORT

IN 1 BKGD B

IN 2 KEY VIDEO

IN 3 BKGD A

IN 4 KEY ALPHA

1   2

3   4

OUT 2

OUT 1

OUT 4

OUT 3

REF IN

5

6

7

8

9

MDK-111A-M-R2

Applications
- Animated Channel Branding Inserter
- Rating Inserter
- Mini-Master Control Switcher
- Downstream Keyer / Branding Engine
- Master Control Bypass Mixer
- Branding / Sponsorship Keyer for Stadiums

The MDK-111A-M is the most advanced HD / SD SDI single card mixer / keyer on the market. The multi-keying function allows simultaneous compositing of both an external key source with up to 3 internally generated logo key sources plus background mixing. For example, the MDK-111A-M can key an external character generator like Ross Video's XPression, over the background video and then key up to 3 internally generated animated logos. Transition control to any layer; BKGD, external key, and / or internal keys is independently controllable. The internal key sources can be any size up to full-screen and can be positioned anywhere. This makes the insertion of trouble slides, content rating bugs, station logos and EAS simple and affordable.

The MDK offers 4 configurable outputs with selections for PGM / PREVIEW and CLEAN. The look-ahead PREVIEW is ideal for live productions providing confidence in quality and accuracy of the next scene to go to air.

The MDK-111A-M offers a wide range of control with a total of 8 configurable GPI/O, M2100 serial interface and full DashBoard Control and Monitoring. The flexible control makes automating logo insertion simple anywhere in the program stream.

Built-in bypass relay from BKGD A to PGM protects your air feed when the device is taken off-line to ensure critical program stream content is not lost.

Compact Flash is provided at the card-edge for local near line storage of logo content with on-board, on-line memory for logo playout. The system is delivered with a 2Gb standard for both Compact Flash and on-line memory.

Key Features
- HD / SD SDI SMPTE 292M, 1.485Gb/s, SMPTE 259M, 270Mb/s
- Supports 1080PsF/24 and 1080PsF/23.98
- 4 keyers: 1 external key / fill, 3 internal animation keyers
- BKGD A and BKGD B inputs with video and audio V-fade and mix with bypass relay for BKGD A to PGM out
- Configurable outputs with Program, Preview, Clean
- Flexible control, 8 GPI/O, M2100 serial
- 2Gb Compact Flash storage for multiple still or animated logos, and full screen images
- RossLinq protocol integration
- Independent transition controls for each keyer
- 5-year transferable warranty
- Power: 18.4 watts

Ordering Information

HD / SD Mixer / Keyer with Internal Logo Insertion

MDK-111A-M   HD / SD SDI Mixer / Keyer w/ Internal Logo Insertion

Rear Module Suffix (ex: [model]-R2)

-R2   Rear Module for MDK-111A-M