

Advanced Display Technology

Datapath Mosaic Multi Video Overlay Card



- Up to 9 video overlay windows on a single screen. Multiple Mosaic cards allowing up to 144 video windows.
- Dedicated 1GB/s Digital Video Bus.
- Overlay windows can be randomly sized, overlapped and positioned anywhere on the Windows® desktop.
- Multi-screen support, no position or size restrictions.
- Mosaic supports upto 8 Datapath iH4-DIG graphics adapters.
- Video overlay windows are updated in real time with zero CPU overhead.
- Multi-standard video support. PAL, NTSC, SECAM and S-Video.
- Separate controls for brightness, contrast, colour and cropping.
- Window border selection and chroma keying.
- Wall Control Software.
- Windows® 2000, Windows® Server 2003 and XP driver support with an SDK for custom applications.

The Mosaic is a PCI plug-in card which has been designed to operate in conjunction with the Datapath iH4-DIG graphics card. The Mosaic, when combined with the iH4-DIG, provides up to 9 separate video overlay windows. For systems that require more than 9, use up to 4 Mosaic cards for a total of 36 video windows.

On Card Connectors

- 2 x 26 way D connectors mounted on the PCI back panel providing connection for video inputs.
- 2 x 40 way ribbon headers for connection to the iH4-DIG adapters.
- On card jumper links provide selection of terminated or un-terminated 75ohm video inputs. (27 links, 3 for each overlay)

Multiple Mosaic Cards

For systems that require more than 9 overlays, multiple Mosaic cards can be installed. There are many possible configurations with two methods of connecting Mosaic's to iH4 cards.

Method 1:

Each Mosaic (maximum of 4), is connected to all iH4's, (maximum of 8), in the system. This allows any Mosaic window to be displayed anywhere on the desktop. Maximum screens = 32 and 36 video windows.

Method 2:

If more than 36 video windows or more than 32 screens are required, the wall can be arranged so that the windows are displayed over part of it. Each iH4 card is configured to control a group of 4 screens using Wall Control Software. You can decide how many windows are required for each group of 4 screens that are controlled by the iH4. For each iH4, connect up to 4 Mosaic Cards, this allows you up to 36 video windows for each set of 4 screens. If some video windows are required to be displayed over more than 4 screens or need to be moved over more than 4 screens, the Mosaic cards can be connected to each iH4 card that you want the video overlays to operate over.

Rules for Connecting Mosaics...

- Each Mosaic can be connected to a maximum of 8 iH4-DIG cards.
- Each iH4-DIG can be connected to a maximum of 4 Mosaic cards.
- Video overlays from a particular Mosaic card can only appear on the screens driven by the iH4-DIG card it is attached to.

Restrictions:

- The maximum number of video windows on a single screen is 9.
- Video windows from different Mosaic cards cannot be displayed on the same screen.

Maximum configuration:

- 8 iH4-DIG cards = 32 screens
- 16 Mosaic cards = 144 video overlay windows.

Cables:

As standard the Mosaic cards are shipped with the M2H4 cable set and 2 x 16 way BNC Splitter Cables.

There are many configurations possible with the Mosaic card, various cable sets are available to order:



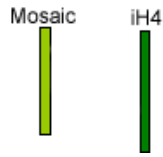
Cable Sets

- M2H1-cable** - Connects 1 or 2 Mosaic cards to 1 iH4-DIG.
- M4H1-cable** - Connects 4 Mosaic cards to 1 iH4-DIG.
- M2H4-cable** - Connects 1 or 2 Mosaic cards to 1, 2, 3 or 4 iH4-DIG.
- M4H4-cable** - Connects 4 Mosaic cards to 1, 2, 3 or 4 iH4-DIG.

Standard Mosaic Cable sets.

<p>M2H1-cable</p> <p>9 Mosaic windows, 4 screens</p>	<p>18 Mosaic windows, 4 screens</p>	<p>A 4 screen system with either 9 or 18 Mosaic windows</p>
<p>M4H1-cable</p>		<p>A 4 screen system with 36 Mosaic windows</p>
<p>M2H4-cable</p> <p>9 Mosaic windows, 16 screens</p>	<p>18 Mosaic windows, 16 screens</p>	<p>Up to 16 screens with either 9 or 18 Mosaic windows</p>
<p>M4H4-cable</p>		<p>Up to 16 screens with 36 Mosaic windows</p>
<p>MBM-H2</p>	<p>MBM-H2</p>	<p>Up to 24 screens with 36 Mosaic windows</p>
<p>MBM-H4</p>	<p>MBM-H4</p>	<p>Up to 32 screens with 36 Mosaic windows</p>

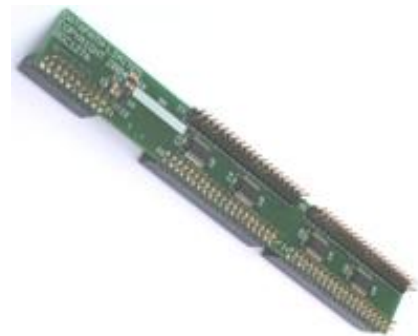
Key:



As stated the Mosaic is shipped with the M2H4 cable set as standard. If a different cable set is required, please specify your requirements when ordering by quoting the Mosaic Model Number.

Mosaic Buffer Modules

The Mosaic Buffer Board is a small PCB that is attached to the J3, J7 and J8 headers on the iH4-DIG enabling 6 or 8 iH4-DIG cards to be attached to your Mosaic cards. The MBM is available in 2 models:



MBM-H2 - Connects up to 4 Mosaic cards to up to 6 iH4-DIG cards.

MBM-H4 - Connects up to 4 Mosaic cards to up to 8 iH4-DIG cards.

Mosaic Specification:

Card Type	PCI 2.2 compliant adapter
Card Size	100 x 260 (mm)
Max number of overlay windows	9
Max capture resolution per channel	768 x 288
Supported video formats	PAL, NTSC, SECAM, S-video
Inputs per overlay window	2 x Composite or 1 x Composite and 1 x S-video
Power consumption	12 watts
Power requirements	+5V at 2.2Amps, +12V at 100mA

Mosaic Model Numbers

Mosaic - Mosaic Card with M2H4-cable set (standard).

Mosaic-xxxx - Mosaic card supplied with a specific cable set (xxxx)

Mosaic-NRC - Mosaic card with no ribbon cable set.

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