

Morph-It™ Rack-based Cat5 Distribution Platform

Powered Rack Mount Frame Holds 16 Accessory Cards in Only 4U

Versatile solution saves money, installation time and rack space, especially in source-centric and switched environments



Morph-It 400R3314

As its name implies, Magenta's Morph-It™ Cat5 distribution platform may be configured for a variety of different video transmission and switching applications. The Morph-It platform includes a 4U, 16-slot frame and a selection of multiple accessory cards, which are powered via the Morph-It's backplane.

Combining MultiView Dual EQ cards with a MultiView Matrix or Mondo Matrix can add +/- 500 feet of effective cable length. Especially useful in a switched environment, the ability to null input distances results in users setting skew and EQ for cable length once, rather than adjusting every time a new input and source are paired. This solution eliminates the need for input Cat5/UTP lengths to be similar.

Another benefit is the potential to use shorter distance MultiView receivers on the display end, thus reducing equipment costs. For example, the illustration on page two demonstrates how less-expensive AK500 receivers can replace AK1000 receivers.

Morph-It also accepts MultiView Dual Transmitter Cards. With its 16 slots, Morph-It can hold and power 32 transmitters in 4U (see page two), compared to the 10U that would be needed to more conventionally rack mount and power 32 MultiView UTx Transmitters — saving 6U of rack space, installation labor and *at least* 25% of the equipment cost. (Morph-It is cost effective when there are 12 or more sources co-located).

Dual (redundant) power supplies are a standard feature of the Morph-It platform.

Multiple versions of the Dual Transmitter Card address a variety of user needs, and are listed in the Specifications section.



MultiView Dual EQ Card
400R3308



MultiView Dual Transmitter Card
400R3381

Sample Companion Products - for a complete listing, please visit our website: www.magenta-research.com



MultiView MV250A
Receiver 400R3284



MultiView AK500
Receiver 4003299
AK500DP: 4003274
AK500-SA: 4003348



MultiView AK1000 DP
Receiver 400R3093
AK1000A: 400R3094
AK1000-SA: 400R3349



MultiView AK1500
Receiver 400R3097
AK1500A: 400R3098
AK1500-SA: 400R3350



Mondo Matrix
Cat5-Scaleable Switch
2213001

Mondo Matrix Switch Configuration



Select	Output 1	Output 2	Output 3	Output 4	Output 5
Input 1	725'	575'	500'	550'	750'
Input 2	650'	500'	425'	475'	675'
Input 3	600'	450'	375'	425'	625'
Input 4	675'	525'	450'	500'	700'
Input 5	775'	625'	550'	600'	800'

Mondo Matrix Switch Configuration With Morph-It



Select	Output 1	Output 2	Output 3	Output 4	Output 5
Input 1	475'	325'	250'	300'	500'
Input 2	475'	325'	250'	300'	500'
Input 3	475'	325'	250'	300'	500'
Input 4	475'	325'	250'	300'	500'
Input 5	475'	325'	250'	300'	500'

In the above application, Morph-It equipped with Dual EQ Cards nulls cable input lengths for the five MultiView UTx Transmitters ahead of the Mondo Matrix A/V Switch. Benefits: A) any input can be switched to any output without a need for receiver adjustments and B) less expensive AK500 receivers can be utilized in place of AK1000 receivers.

Rack Mount Space Savings - 32 Transmitters

Solution A

8 UTx Transmitters (2U)
8 UTx Transmitters (2U)
8 UTx Transmitters (2U)
8 UTx Transmitters (2U)
Dense Pack Power Supply (1U)
Dense Pack Power Supply (1U)

Total Rack Space: 10U

Solution B

One Morph-It with 16 MultiView Dual Transmitter (4U) Cards powered by backplane

Total Rack Space: 4U

Solution B also delivers at least 25% in cost savings

Specifications

Size: 4U **Capacity:** 16 - Single-slot accessory cards
8 - Double-slot accessory cards

Power Requirement: 90-264VAC 47- 63HZ 100 Watts max

Temperature: 0 - 40C **Humidity:** 80% non-condensing **MTBF:** 100K hrs

Weight: 14.2 lb. empty / 24 lb. fully populated with 8 double-slot Dual Transmitter cards

Compliance: CE, FCC Class A (Dual Transmitter Card pending approval). CE safety pending approval.

Morph-It Accessory Cards:

MultiView Dual EQ Card #400R3308

Size: Morph-It single-slot form factor (max 16 per frame)
Connections: (2) UTP inputs, (2) UTP outputs
Power Requirement: 250mA max (driving white screens)

MultiView Dual Transmitter Card #400R3381

Size: Morph-It single-slot form factor (max 16 per frame)

Connections: (2) HD15 inputs, (2) UTP outputs, (2) Phoenix
Power Requirement: 110mA max (driving white screens)

MultiView Dual Transmitter Card w/ Local Video Ports #400R3382

Size: Morph-It double-slot form factor (max 8 per frame)
Connections: (2) HD15 inputs, (2) UTP outputs, (2) Phoenix, (2) local monitor outs
Power Requirement: 110mA max (driving white screens)

MultiView Dual Transmitter Card w/ Local Video Ports and Duplex EIA-232 #400R3384

Size: Morph-It double-slot form factor (max 8 per frame)
Connections: (2) HD15 inputs, (2) UTP outputs, (2) local monitor outs, (2)DB9
Power Requirement: 170mA max (driving white screens)

MultiView Dual SA Transmitter Card w/ Local Video Ports, Duplex EIA-232 and Stereo Audio #400R3383

Size: Morph-It double-slot form factor (max 8 per frame)
Connections: (2) HD15 inputs, (2) UTP outputs, (2) Phoenix, (2) local monitor outs, (2)DB9
Power Requirement: 170mA max (driving white screens)

Magenta Research is the industry-recognized leader in the adaptive distribution and switching of video/audio/serial signals over Cat5 cable, and more recently, DVI over fiber and/or Cat6. Over nine years, Magenta has developed the highest-performance, most flexible video-over-Cat5 product line, the MultiView Series. The company utilizes patent-pending RepliSync™ and complex, state-variable signal EQ technologies to enable UXGA video distribution at 1,500 feet (457m) and QXGA video at 1,000 ft. (305m). MultiView Series transmitters, receivers, switchers and distributive systems have been installed in a large variety of A/V applications, especially dynamic signage for airport, retail, fast food, museum, casino, theatre, courtroom and corporate applications. Based in New Milford, CT, Magenta utilizes a network of international distributors, manufacturers representatives and resellers to market its enabling technology worldwide.

