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MAGENTA RESEARCH ™

Connect with Confidence

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 AK600 receivers can replace AK1200 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 MV500A
Receiver 400R3450
MV500S: 400R3649

MultiView AK600DP
Receiver 400R3755
AK600DP-SA: 400R3765
AK600DP–SAP: 400R3769

MultiView AK1200DP
Receiver 400R3681
AK1200DP-SA: 400R3690
AK1200DP–SAP: 400R3694

MultiView XR-2000
Receiver 400R3584
XR-2000-SA: 400R3614
XR-2000-SAP: 400R3585

Mondo Matrix
Cat5-Scaleable Switch
221R3001

Mondo Matrix Switch Configuration

MultiView UTx Transmitters

MultiView AK1200DP Receivers

Select	Output 1	Output 2	Output 3	Output 4	Output 5
Input 1	925’	775’	700’	750’	950’
Input 2	850’	700’	625’	675’	875
Input 3	800’	650’	575’	625’	825’
Input 4	875’	725’	650’	700’	900’
Input 5	975’	825’	750’	800’	1000’

Mondo Matrix Switch Configuration With Morph-It

MultiView UTx Transmitters

MultiView AK600DP Receivers

Select	Output 1	Output 2	Output 3	Output 4	Output 5
Input 1	575’	425’	350’	400’	600’
Input 2	575’	425’	350’	400’	600’
Input 3	575’	425’	350’	400’	600’
Input 4	575’	425’	350’	400’	600’
Input 5	575’	425’	350’	400’	600’

In the above application, a 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 AK600DP receivers can be utilized in place of AK1200DP receivers.

Rack Mount Space Savings—32 Transmitters

Solution A

8 UTx Transmitters (2U)
8 UTx Transmitters (2U)
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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 Cards powered by backplane (4U)

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 undisputed leader in the adaptive distribution and switching of audio/visual signals over Cat5 cable. Over ten 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 WUXGA video distribution at 2,000 feet (610m). 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.