

## Model M Automatic Mixing Controller MADI I/O



### APPLICATIONS

TV news and sports panels, political debates  
Conference reinforcement, video trucks  
Reality shows, game shows  
Wireless mics for theater  
Boardrooms, civic meeting rooms  
Teleconferencing and distance learning  
Houses of worship

### BENEFITS

Eliminates late upcuts  
Reduces PA feedback and studio noise  
Reduces comb filtering from adjacent mics

### FEATURES

64 channels of processing  
96 kHz sampling rate supported (32 channels)  
All Dugan algorithms: Speech System, Music System and Gain Limiting  
Channels may be grouped into three independent automixers  
Optical and BNC MADI connectors  
Power over Ethernet (PoE) capable  
Remote control from Dugan Control Panel for Java (included) and Dugan Control Panel for iPad (sold separately)  
Physical remote control from Dugan Model K Control Surface (sold separately)  
Miniature control panel for setup or adjustments from front panel  
Standard Dugan linking for larger systems or 16 channels ADAT I/O

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# Specifications

AUDIO	
MADI I/O	AES10-2008 (r2014) optical or coaxial 64 channels @ 48 kHz sample rate 32 channels @ 96 kHz sample rate
ADAT I/O	16 channels
GAIN	Unity
SAMPLE RATE	48 - 96 kHz
BIT DEPTH	24 bit
AUDIO LATENCY	< 1 ms
FREQUENCY RESPONSE	10 Hz - 48 kHz, +/- 0.0075 dB @ 96 kHz
OUTPUT NOISE	-125 dBFS (20 Hz - 20 kHz), -128 dBAFS
DISTORTION	-125 dBFS
ALGORITHMS	Dugan Speech System™, Dugan Music System™, Dugan Gain Limiting™
LINKING	Up to eight units can be linked into one system in an optical ring network

CONNECTORS	
AUDIO I/O	MADI: Two optical (multimode) SC (IEC 61754-4), two coaxial BNC 75-Ohm ADAT: Two TOSLINK optical
WORD CLOCK I/O	Two BNC 75-Ohm
LINKING I/O	Two TOSLINK optical
NETWORK	Three RJ-45, one accepts PoE

POWER	
CONNECTOR	Coaxial with locking collar, 5.5 mm o.d., 2 mm i.d., center positive
ELECTRICAL	Nominal 12 VDC, 1.0 A maximum (12 W); accepts 12-24 VDC
PoE	802.3af-2003-compliant powered device (PD)
EXTERNAL SUPPLY	Input: 100-240 VAC, 50-60 Hz, 24W Output: 18 V, 1.3 A Approved: UL, GS, CE, FCC, LPS, CCC(S&E)

PHYSICAL	
DIMENSIONS	1 RU H = 1.75 in (4.5 cm) D = 8.3 in (21 cm) W = 8.75 in (22.2 cm)
WEIGHT	3.4 lb (1.54 kg) 7.0 lb (2.50 kg) in shipping box with rack mounting kit and power supply