



BG-MC-SERIES

8X8/16X16/36X36 MODULAR AND FULLY CONFIGURABLE SEAMLESS 4K60 MATRIX SWITCHER WITH VIDEO WALL AND INCLUDED CONTROL SYSTEM

The BG-MC-SERIES Modular Seamless Switching Matrix is a professional-grade AV solution engineered for demanding signal management environments. Supporting up to 8-36 inputs and outputs, it delivers powerful, real-time switching, distribution, and control with zero latency or signal degradation. Designed for mission-critical installations, this all-in-one system integrates a high-performance video wall processor, seamless switching technology, and intelligent control capabilities. Whether deployed in control rooms, broadcasting studios, corporate AV systems, or large-scale video walls, the BG-MC-SERIES ensures pristine 4K60 (4:4:4) image quality and uncompromised reliability across every connected display.

FEATURES



SEAMLESS 4K SWITCHING

Zero-latency transitions between sources with no tearing or black screens



MODULAR CARD ARCHITECTURE

Pluggable input/output modules for HDMI, SDI, HDBaseT, fiber, and more



ULTRA-LOW LATENCY GEN-LOCK

Synchronizes outputs for precise video wall splicing



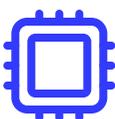
SCALABLE DESIGN

Expandable from 8x8 up to 36x36 configurations for flexible installations



COMPREHENSIVE CONTROL OPTIONS

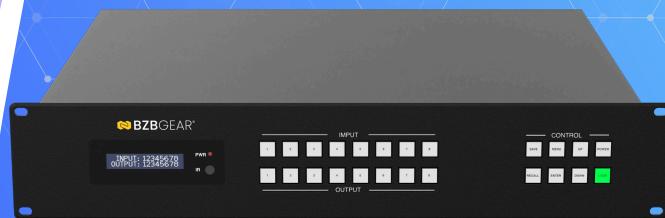
Operate via front panel, RS-232, LAN, IR, Web GUI, or PC software



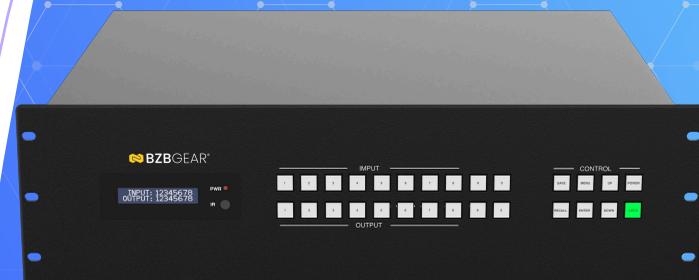
INTEGRATED VIDEO WALL PROCESSOR

Supports advanced multi-screen layouts with perfect synchronization

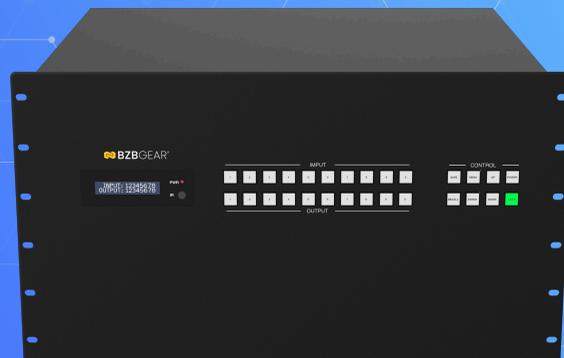
BG-MC-88M



BG-MC-1616M



BG-MC-3636M





TECH SPECIFICATIONS

Technical

HDMI Compliance	2K series – HDMI 1.4 / 4K series – HDMI 2.0b
HDCP Compliance	2K series – HDCP 1.4 / 4K series – HDCP 2.2
Video Bandwidth	600MHz / 18Gbps
Video Resolution	2K – 1920x1200@60Hz / 4K – 3840x2160@60Hz 4:4:4
Color Depth	2K – 8/10/12-bit @1080p60 / 4K – 8/10/12-bit @4K30 & 8-bit @4K60 4:4:4
Color Space	RGB, YCbCr 4:4:4 / 4:2:2 / 4:2:0
Audio Formats	HDMI (LPCM 2.0/5.1/7.1CH), Analog (LPCM 2.0CH)
ESD Protection	IEC 61000-4-2 ±8KV (air-gap), ±4KV (contact)

Connections

Input Cards	8x8 – 2 cards / 16x16 – 4 cards / 36x36 – 9 cards
Output Cards	8x8 – 2 cards / 16x16 – 4 cards / 36x36 – 9 cards
Control	1 main control card (all configurations)

Mechanical

Housing	Metal enclosure, black finish
Dimensions	8x8 – 19 x 15 x 3.5in [483 x 377 x 89mm] 16x16 – 19 x 15 x 5.2in [483 x 379 x 133mm] 36x36 – 19 x 15 x 10in [483 x 378 x 266mm]
Weight (without cards)	8x8 – 13 lbs [5.95kg] / 16x16 – 19 lbs [8.62kg] / 36x36 – 34 lbs [15.4kg]
Power Supply	AC 100–240V, 50/60Hz
Power Consumption	8x8 – 40W–190W / 16x16 – 80W–320W / 36x36 – 200W–840W
Environmental Conditions	Operating: 32°F–104°F / 0°C–40°C Storage: -4°F–140°F / -20°C–60°C Humidity: 20–90% RH (no condensation)

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Pro Line Products

5-YEAR WARRANTY

Essential Line Products

3-YEAR WARRANTY

Cables Products

LIFETIME WARRANTY





CARDS

Input Cards – 4K (4 Channels Per Card)

BG-MC-IN-HDBT70-4K



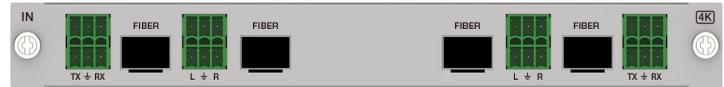
BG-MC-IN-HDMI-4K



BG-MC-IN-HDBT100-4K



BG-MC-IN-FIBER-4K



BG-MC-IN-HDBT150-4K



BG-MC-IN-SDI-4K



Output Cards – 4K (4 Channels Per Card)

BG-MC-OUT-HDBT70-4K



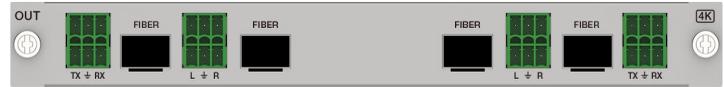
BG-MC-OUT-HDMI-4K



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Input Cards – 2K (4 Channels Per Card)

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BG-MC-IN-FIBER-2K



BG-MC-OUT-HDBT150-2K



BG-MC-IN-SDI-2K





CARDS

Output Cards – 2K (4 Channels Per Card)

BG-MC-OUT-HDBT70-2K



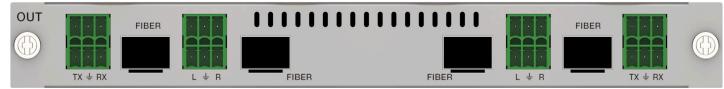
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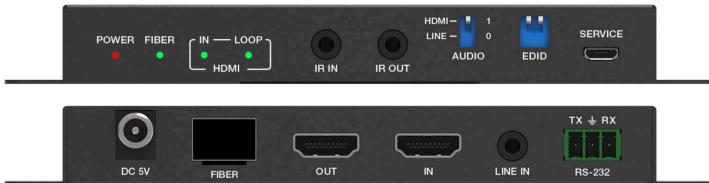
BG-MC-OUT-SDI-2K



CARDS

Additional Extension Options

BG-MC-EXT-FIBER10K-TX



BG-MC-EXT-FIBER10K-RX



BG-MC-EXT-HDBT70-TX



BG-MC-EXT-HDBT70-RX



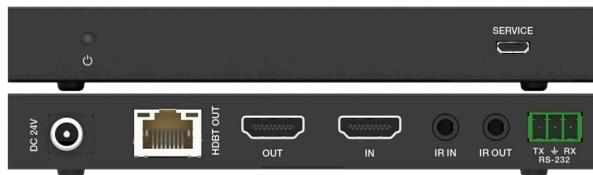
BG-MC-EXT-HDBT100-TX



BG-MC-EXT-HDBT100-RX



BG-MC-EXT-HDBT150-TX



BG-MC-EXT-HDBT150-RX





CARDS

Accessories

BG-MC-CONTROL



BG-MC-CONTROL-RS232



BG-MC-BLANK

