BLACK BOX®

MCX

ADVANCED AV DISTRIBUTION AND CONTROL FOR MODERN NETWORKS

MCX, a modern matrix switch for AV-over-IP and video distribution from Black Box, drives 4K 60 Hz video and audio over IP and enables AV and data payloads to exist on the same IT network, reducing network management time and costs. MCX delivers the video quality high-end AV applications require to display eye-catching content: It extends up to 4K 60 Hz 4:4:4 video to an unlimited number of displays without sacrificing latency, video quality, or bandwidth. Even better, it supports up to 10-bit HDR using Software-Defined Video over Ethernet (SDVoE™) – the latest software-based AV-over-IP platform for extension and control of AV systems on Ethernet or fiber networks.

Control your MCX system with the MCX Gen2 Controller for easy deployment, configuration and management, and command your install with the tap of a button or swipe of a touchpad using Black Box ControlBridge®.
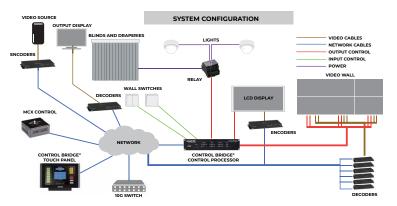
| MCX-G2-CTRL-24 | MCXG2TD11 | CB-TOUCH12-T |

MCX Product Family Comparison Chart

	Input Type	Connectivity	SDVoE 4K 60 Hz	Scaling	USB
MCXG2EC01	HDMI 2.0	10-GbE Copper	Yes	Yes	USB-C
MCXG2EF01	HDMI 2.0	10-GbE Fiber	Yes	Yes	USB-C
MCXG2DC01	HDMI 2.0	10-GbE Copper	Yes	Yes	USB-C
MCXG2DF01	HDMI 2.0	10-GbE Fiber	Yes	Yes	USB-C
MCXG2TD11	DisplayPort	10-GbE Copper or Fiber	Yes	Yes	USB-A/USB-B
MCX Gen2 Controller	N/A	1-GbE LAN Interface	N/A	N/A	USB-A/USB-C

SYSTEM CONFIGURATION

VIDEO SOURCE
OUTPUT DISPLAY
BLINDS AND DRAPERIES
LIGHTS
ENCODERS
RELAY
WALL SWITCHES
DECODERS
MCX CONTROL
NETWORK
CONTROL BRIDGE® TOUCH PANEL
CONTROL BRIDGE® CONTROL PROCESSOR
10G SWITCH
LCD DISPLAY
VIDEO WALL
ENCODERS
DECODERS

VIDEO CABLES
NETWORK CABLES
OUTPUT CONTROL
INPUT CONTROL
POWER

DELIVERS UP TO 4K 60 HZ 4:4:4 VIDEO
Extend up to 4K 60 Hz 4:4:4 video to an unlimited number of displays without sacrificing latency, video quality, or bandwidth.

ZERO SOURCE TO DISPLAY LATENCY
Overcome source to display latency with glass-to-glass encoding and decoding that happens in real time (0.03 milliseconds).

SEAMLESS SWITCHING
Switch between video sources in less than 100 milliseconds with no artifacts or screen blink

ADVANCED VIDEO WALL CAPABILITIES
Increase versatility in video wall deployments with advanced video scaling options, such as multi-view, picture-in-picture, split screen, and more.

COMPLETE CONTROL
Control your entire audio/video system using the MCX Gen2 Controller, which provides an easy-to-use interface for managing your system to form a distributed video matrix, a multiviewer system, or a video wall system.

FLEXIBLE DEPLOYMENT
Deploy on 10G Ethernet networks using copper, fiber or both.

COMPREHENSIVE CONNECTIVITY
Connect to your MCX through its variety of ports: discrete RS-232, IR, secondary audio channel, plus a separate 1-GbE connection.

DEVELOPED WITH THE LATEST TECHNOLOGY
SDVoE distributes AV without negatively affecting network performance, functionality, or capability.

GEN2 ENDPOINT FEATURES
Encoders and transcoder support a local display via a loop-through connector. No room for power? MCX uses Power over Ethernet (PoE) so you don't need to install MCX near an outlet. Plus, USB C connectivity ensures that MCX works with modern interfaces, and an ASIC-based circuit board reduces heat generated and power consumed.

SDVoE™