

# DATA SHEET

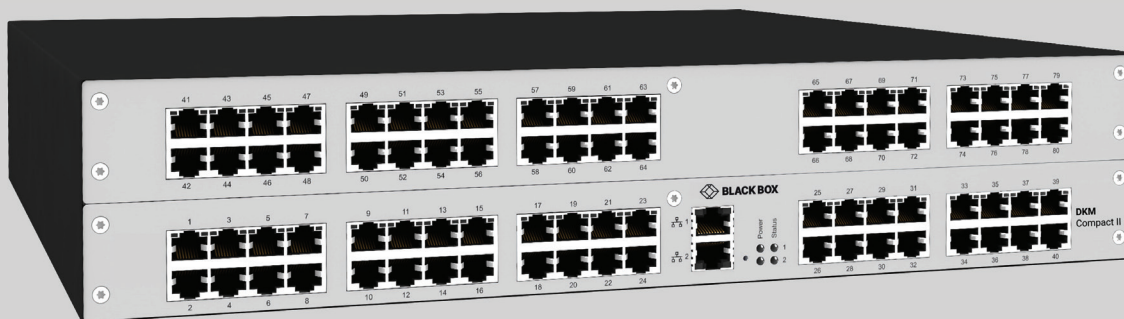
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ACXC SERIES

# DKM COMPACT II SWITCHES

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TECHNICAL SUPPORT AT 877.877.2269 OR VISIT [BLACKBOX.COM](http://BLACKBOX.COM)



**BLACK BOX**  **X**<sup>®</sup>

# OVERVIEW

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## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET

### INTRODUCTION

The DKM Compact II KVM Matrix Switches come in sizes of 1, 2, and 4 RU. With their capability to facilitate 1G and 3G technology within a single frame, they support modern applications with a mix of HD and 4K video resolutions in a very economical way. Their custom-design chassis allows for future field upgradability, so you can scale your system from 40 ports to 80 ports or even up to 160 ports to meet your business needs.

CATx DKM Switches enable you to extend KVM signals up to 140 meters (459 feet) over standard CATx cable. If you're using CATx 3G, you can extend signals up to 100 meters (328 feet).

Fiber DKM Switches enable you to extend KVM signals up to 400 meters (1312 feet) over standard multimode fiber or even 10 kilometers (6.2 miles) over single mode fiber.

Hybrid DKM Switches enable you to extend KVM signals up to 10 kilometers (6.2 miles) over singlemode fiber or 400 meters (1312 feet) over multimode fiber. They also allow you to extend KVM signals up to 140 meters (459 feet) over standard CATx cable. If you're using CATx 3G, you can extend signals up to 100 meters (328 feet).

If one of these standard switches don't meet your requirements, we can create custom versions specific to your application.

#### Choose from 5 Types of I/O Modules

DKM I/O Modules allow you to add CATx or fiber inputs/outputs to a slot in your DKM Compact II KVM Matrix Switch. Choose from a variety of different modules providing eight CATx or fiber ports. Select 1G or 3G network speed models depending on the types of signals and video resolutions that need to be transmitted.

#### Build a Large Matrix Grid

With the 10G Grid Switch, you can link multiple DKM Compact II KVM Switches together to create a bigger system. This functionality allows you to build a homogeneous large matrix grid for your enterprise.

Grid switches can cascade with other switches with a grid card (compact or modular). Grid switches/grid cards can support (8) single head connections per port since they support a 10G link. Use a grid switch when you have run out of ports and need more, or if you have computers/users in another area of the building.

#### Customize Your System with a Front Plate

The DKM Front Plates allow for chassis customization by increasing their port count using additional I/O cards, and then fitting the right front plate to secure the chassis and cards, leaving no open gaps for foreign objects to enter the chassis, keeping it safe.

### Complete Your Installation with DKM Extenders

The DKM Switches work in combination with preconfigured or modular DKM Extenders. The extender transmitter and receiver units connect to the switch and the switch sends routing signals to the extenders and manages the DKM system. Extenders are required components for the DKM system to work as designed.

#### Easy to Set Up

By simply connecting the extender to the chassis, the internal application control software will recognize and auto-configure the port as a Receiver or Transmitter device. This Flex-Port technology provides huge time savings for system installers who normally have to pre-configure ports to specific I/O requirements. The system also supports instant switching technology. With incredible speed, switching between sources is glitch-free and instantaneous, reducing eye strain and annoying video tearing found with other systems.

Where centralized switching of KVM is necessary, the DKM Compact II is the perfect KVM solution. It is especially suited for factory floor automation control systems, production studios, OB Vans as well as command and control environments.

#### Works with Your Existing DKM System

The DKM Compact II KVM Matrix Switches are compatible with all Black Box DKM extenders. Update the firmware, then simply match the correct endpoint hardware (1G, 3G, Fiber) to the respective I/O card to get connectivity.

For more information about compatible DKM KVM Modular Extenders that work with the DKM Compact II Switches, see the Extenders data sheet at [https://www.blackbox.com/DKM-Modular-Extenders\\_datasheet](https://www.blackbox.com/DKM-Modular-Extenders_datasheet)

### FEATURES

- **Choose CATx, fiber, or mixed configurations for 1G or 3G**
- **Compatible with upcoming 1G/3G, IPv6**
- **Modular design is easy to scale and maintain**
- **Compatible with all Black Box DKM KVM extenders**
- **Has redundant power supply unit and network interface connections**
- **Versatility: With only 3 types of chassis and only 5 types of I/O modules, an almost endless number of customer-specific Black Box matrix switches are possible**

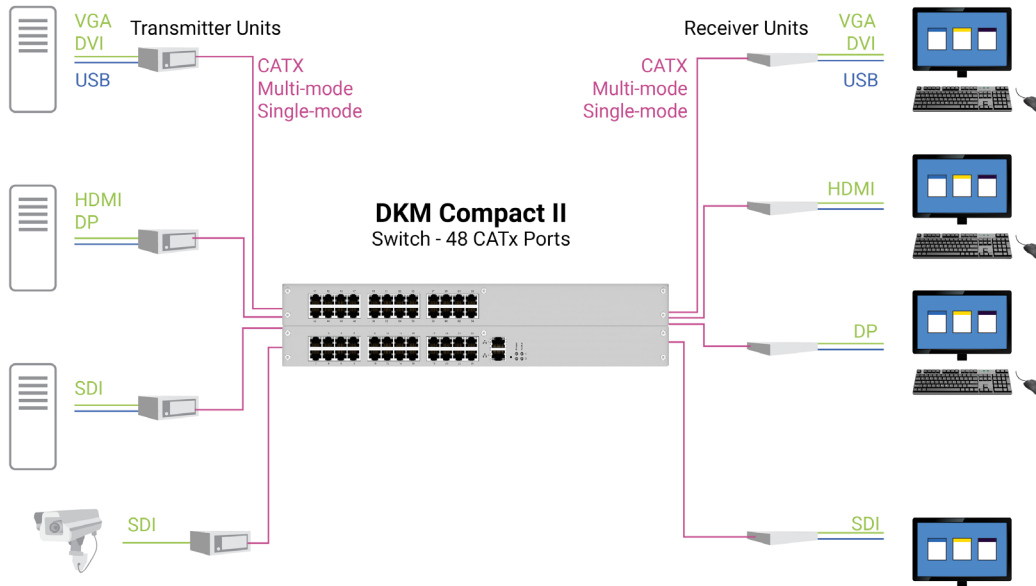


# SPECIFICATIONS

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET

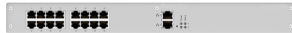
GENERAL SPECIFICATIONS						
SPECIFICATION	DESCRIPTION					
INPUT/OUTPUT	(16)-to (160) CATx or fiber (any combination) (2) RJ-45 Gigabit Ethernet					
SUPPORTED SIGNALS	DisplayPort, HDMI, DVI-D, DVI-I, USB 2.0, USB-HID, RS-232, RS-422, analog/digital or balanced audio, SDI via DKM extenders					
CONTROL	OSD (On-Screen Display), DKM FX Utility Tool (Java), API					
	CATx	CATx 3G	Singlemode fiber, 9-µm	Singlemode fiber 3G, 9-µm	Multimode fiber, 50-µm, OM3	Multimode fiber, 50-µm
MAXIMUM CABLE DISTANCE	140 m (459 ft.)	100 m (328 ft.)	10 km (6.2 mi.)	5 km (3.1 mi.)	400 m (1312 ft.)	400 m (1312 ft.)
	1 RU		2 RU		4 RU	
POWER	100-240 V, 3 A, 50/60 Hz		100-240 V, 4 A, 50/60 Hz		100-240 V, 5.8 A, 50/60 Hz	
DIMENSIONS	1.75" H x 17.4" W x 17.7" D (4.4 x 44.2 x 44.9 cm)		3.5" H x 17.4" W x 17.7" D (9.0 x 44.2 x 44.9 cm)		7.0" H x 17.4" W x 17.7" D (17.7 x 44.2 x 44.9 cm)	
WEIGHT	approx. 17.0 lb. (7.7 kg)		approx. 24.3 lb. (11 kg)		approx. 41.9 lb. (19 kg)	
SUITABLE EXTENDERS	Compatible with all Black Box DKM extenders					

## APPLICATION DIAGRAM



# CATX 1G AND CATX 3G: 16 TO 160 PORTS

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET



16-Port



24-Port



32-Port



40-Port



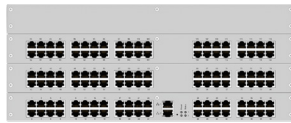
48-Port



64-Port



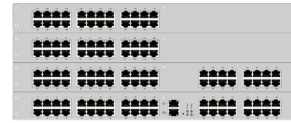
80-Port



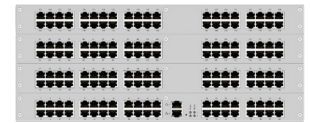
120-Port



128-Port



144-Port



160-Port

ITEM	CODE
DKM Compact II KVM Matrix Switches	
CATx, 1G	
16-Port	<b>ACXC16-1G</b>
24-Port	<b>ACXC24-1G</b>
32-Port	<b>ACXC32-1G</b>
40-Port	<b>ACXC40-1G</b>
48-Port	<b>ACXC48-1G</b>
64-Port	<b>ACXC64-1G</b>
80-Port	<b>ACXC80-1G</b>
120-Port	<b>ACXC120-1G</b>
128-Port	<b>ACXC128-1G</b>
144-Port	<b>ACXC144-1G</b>
160-Port	<b>ACXC160-1G</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
CATx, 3G	
16-Port	<b>ACXC16-3G</b>
24-Port	<b>ACXC24-3G</b>
32-Port	<b>ACXC32-3G</b>
40-Port	<b>ACXC40-3G</b>
48-Port	<b>ACXC48-3G</b>
64-Port	<b>ACXC64-3G</b>
80-Port	<b>ACXC80-3G</b>
120-Port	<b>ACXC120-3G</b>
128-Port	<b>ACXC128-3G</b>
144-Port	<b>ACXC144-3G</b>
160-Port	<b>ACXC160-3G</b>



# FIBER 1G AND FIBER 3G: 16 TO 160 PORTS

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET



16-Port



24-Port



32-Port



40-Port



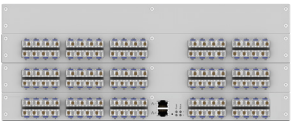
48-Port



64-Port



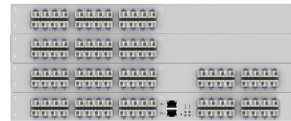
80-Port



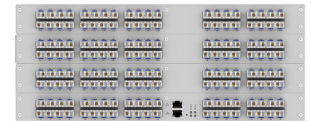
120-Port



128-Port



144-Port



160-Port

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Fiber, 1G	
16-Port	<b>ACXC16F-1G</b>
24-Port	<b>ACXC24F-1G</b>
32-Port	<b>ACXC32F-1G</b>
40-Port	<b>ACXC40F-1G</b>
48-Port	<b>ACXC48F-1G</b>
64-Port	<b>ACXC64F-1G</b>
80-Port	<b>ACXC80F-1G</b>
120-Port	<b>ACXC120F-1G</b>
128-Port	<b>ACXC128F-1G</b>
144-Port	<b>ACXC144F-1G</b>
160-Port	<b>ACXC160F-1G</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Fiber, 3G	
16-Port	<b>ACXC16F-3G</b>
24-Port	<b>ACXC24F-3G</b>
32-Port	<b>ACXC32F-3G</b>
40-Port	<b>ACXC40F-3G</b>
48-Port	<b>ACXC48F-3G</b>
64-Port	<b>ACXC64F-3G</b>
80-Port	<b>ACXC80F-3G</b>
120-Port	<b>ACXC120F-3G</b>
128-Port	<b>ACXC128F-3G</b>
144-Port	<b>ACXC144F-3G</b>
160-Port	<b>ACXC160F-3G</b>

# CATX/FIBER (HYBRID): 40 TO 160 PORTS

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET



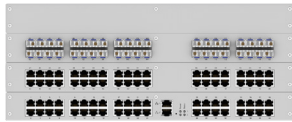
40-Port



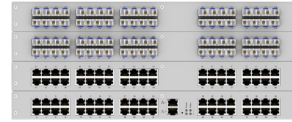
64-Port



64-Port



120-Port



160-Port

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Hybrid 1G (CATx and Fiber)	
40-Port (24 CATx, 16 Fiber)	<b>ACXC24F16-1G</b>
64-Port (24 CATx, 40 Fiber)	<b>ACXC24F40-1G</b>
64-Port (40 CATx, 24 Fiber)	<b>ACXC40F24-1G</b>
80-Port (40 CATx, 40 Fiber)	<b>ACXC40F40-1G</b>
120-Port (80 CATx, 40 Fiber)	<b>ACXC80F40-1G</b>
160-Port (80 CATx, 80 Fiber)	<b>ACXC80F80-1G</b>
160-Port (120 CATx, 40 Fiber)	<b>ACXC120F40-1G</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Hybrid 3G (CATx and Fiber)	
40-Port (24 CATx, 16 Fiber)	<b>ACXC24F16-3G</b>
64-Port (24 CATx, 40 Fiber)	<b>ACXC24F40-3G</b>
64-Port (40 CATx, 24 Fiber)	<b>ACXC40F24-3G</b>
80-Port (40 CATx, 40 Fiber)	<b>ACXC40F40-3G</b>
120-Port (80 CATx, 40 Fiber)	<b>ACXC80F40-3G</b>
160-Port (80 CATx, 80 Fiber)	<b>ACXC80F80-3G</b>
160-Port (120 CATx, 40 Fiber)	<b>ACXC120F40-3G</b>

## GRID: 32 PORTS



32-Port



32-Port

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Grid, 1G	
32-Port CATx	<b>ACXC32-1G-GRID</b>
32-Port Fiber	<b>ACXC32F-1G-GRID</b>

# CUSTOM DESIGN: 16 TO 160 PORTS

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET

- Start with a 40-Port Matrix with the scalability of up to 80 ports non-blocking (2 RU)
- Start with a 40-Port Matrix with the scalability of up to 160 ports non-blocking (4 RU)
- Mix and match CATx and Fiber in a variety of options
- Mix and match 1G and 3G (4K60) interface in a variety of options
- Offers DKM FX enterprise flexibility and scalability at Compact DKM FX size and price
- All versions with integrated Dual PSU and Dual NIC



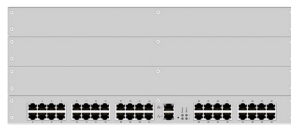
Custom Design: Up to 80 Ports



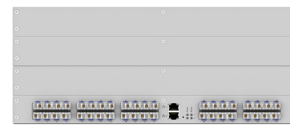
Custom Design: Up to 80 Ports



Custom Design: Up to 80 Ports



Custom Design: Up to 160 Ports



Custom Design: Up to 160 Ports



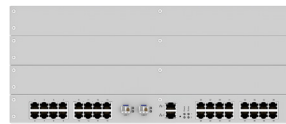
Custom Design: Up to 160 Ports



Custom Design: Up to 80 Ports



Custom Design: Up to 80 Ports



Custom Design: Up to 160 Ports



Custom Design: Up to 160 Ports

ITEM	CODE
DKM Compact II KVM Matrix Switches	
2 RU, Up to 80 Ports, Custom Design	
40-Port CATx 1G	<b>ACXC40-1G-2RU</b>
40-Port Fiber 1G	<b>ACXC40F-1G-2RU</b>
40-Port Hybrid 1G	<b>ACXC24F16-1G-2RU</b>
32-Port + Grid, CATx 1G	<b>ACXC32-1G-GRID-2RU</b>
32-Port + Grid, Fiber	<b>ACXC32F-1G-GRID-2RU</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
4 RU, Up to 160 Ports, Custom Design	
40-Port CATx 1G	<b>ACXC40-1G-4RU</b>
40-Port Fiber 1G	<b>ACXC40F-1G-4RU</b>
40-Port Hybrid 1G	<b>ACXC24F16-1G-4RU</b>
32-Port + Grid, CATx 1G	<b>ACXC32-1G-GRID-4RU</b>
32-Port + Grid, Fiber	<b>ACXC32F-1G-GRID-4RU</b>

# CUSTOM DESIGN: I/O MODULES

## DKM FX COMPACT II KVM MATRIX SWITCHES DATA SHEET

ITEM	CODE
DKM Compact II KVM Matrix Switches	
I/O Modules for Custom Design	
CATx, 1G	<b>ACXC8-M-1G</b>
CATx, 3G	<b>ACXC8-M-3G</b>
Fiber, 1G	<b>ACXC8F-M-1G</b>
Fiber, 3G	<b>ACXC8F-M-3G</b>
LWL, 10G	<b>ACXC-GRID</b>

# CUSTOM DESIGN: 2 RU, 3 RU, 4 RU FRONT PLATES

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Front Plates, 2 RU	
24x CATx 1G/3G, Ports 41-64	<b>ACXC-FP-C24S2</b>
40x CATx 1G/3G, Ports 41-80	<b>ACXC-FP-C40S2</b>
24x fiber 1G/3G, Ports 41-64	<b>ACXC-FP-F24S2</b>
40x fiber 1G/3G, Ports 41-80	<b>ACXC-FP-F40S2</b>
32x CATx 1G/3G + Grid, Ports 41-80	<b>ACXC-FP-C32GS2</b>
32x fiber 1G/3G + Grid, Ports 41-80	<b>ACXC-FP-F32GS2</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Front Plates, 3 RU	
24x CATx 1G/3G, Ports 81-104	<b>ACXC-FP-C24S3</b>
40x CATx 1G/3G, Ports 81-120	<b>ACXC-FP-C40S3</b>
24x fiber 1G/3G, Ports 81-104	<b>ACXC-FP-F24S3</b>
40x fiber 1G/3G, Ports 81-120	<b>ACXC-FP-F40S3</b>
32x CATx 1G/3G + Grid, Ports 81-80	<b>ACXC-FP-C32GS3</b>
32x fiber 1G/3G + Grid, Ports 81-120	<b>ACXC-FP-F32GS3</b>

ITEM	CODE
DKM Compact II KVM Matrix Switches	
Front Plates, 4 RU	
24x CATx 1G/3G, Ports 121-144	<b>ACXC-FP-C24S4</b>
40x CATx 1G/3G, Ports 121-160	<b>ACXC-FP-C40S4</b>
24x fiber 1G/3G, Ports 121-144	<b>ACXC-FP-F24S4</b>
40x fiber 1G/3G, Ports 121-160	<b>ACXC-FP-F40S4</b>
32x CATx 1G/3G + Grid, Ports 121-160	<b>ACXC-FP-C32GS4</b>
32x fiber 1G/3G + Grid, Ports 121-160	<b>ACXC-FP-F32GS4</b>





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