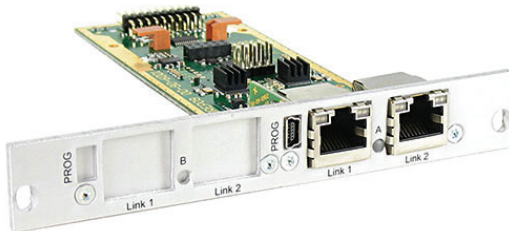


## DKM Series Repeaters/Cross Repeaters



### OVERVIEW

The (Cross) Repeater is used to double the maximum cabling distance between a KVM extender CON or CPU Unit or even a KVM matrix. The device can also be used for media conversion from CATx to fiber or vice versa.

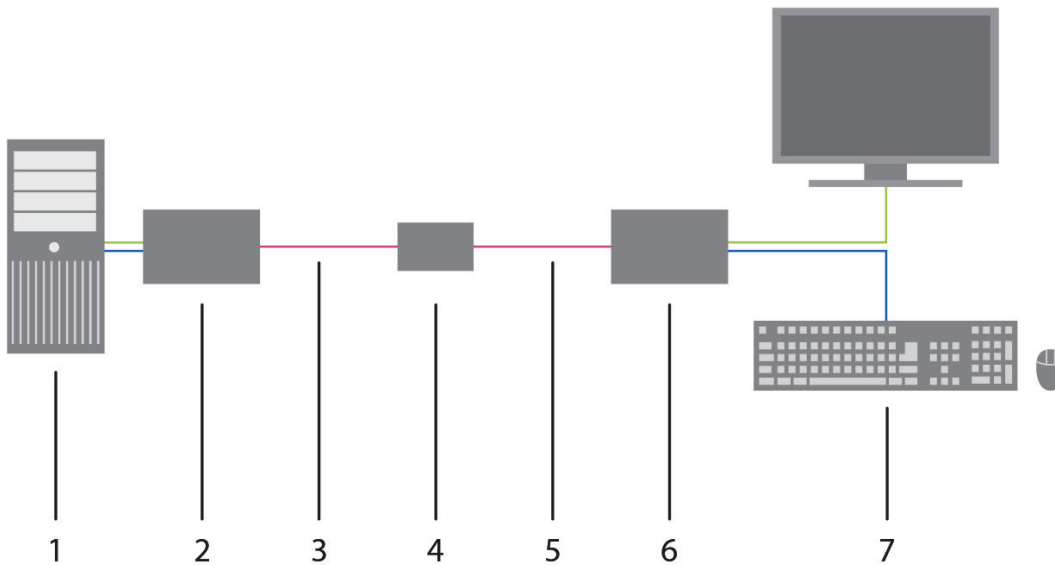
The device is available as a pure CATx or fiber version (repeater) and as a hybrid version of CATx and fiber (cross repeater) for an additional electrical/optical signal conversion.

### FEATURES

- ◆ Compatible chassis house 2, 4, 6, or 21 repeater/cross repeater and/or extender cards.
- ◆ Choose from four repeater and two cross repeater cards.
- ◆ Building your DKM is a 4-step process: First, pick your chassis; second, select your extender cards. Third, add your accessories and upgrade kits. Fourth, choose your converter/scaler and repeater/cross repeater cards.

**NOTE:** This data sheet covers the repeater/cross repeater cards. For more information about the chassis and extenders, see the relevant datasheet.

## SYSTEM COMPONENTS



**TABLE 1. SYSTEM COMPONENTS**

NUMBER IN FIGURE 2-1	COMPONENT
1	Source (computer, CPU)
2	KVM Extender CPU Unit
3	Interconnect cable (CATx or fiber)
4	(Cross) Repeater
5	Interconnect cable (CATx or fiber)
6	KVM Extender CON Unit
7	Console (monitor, keyboard, mouse)

COMPATIBLE CHASSIS SPECIFICATIONS

TABLE 2. COMPARISON CHART: CHASSIS

PRODUCT CODE	NUMBER OF TX/RX CARDS SUPPORTED	CONNECTOR	PRIMARY POWER	OPTIONAL SECONDARY POWER	DIMENSIONS	WEIGHT
ACXMODH2-R2	2	(1) 2.5-mm barrel connector for power	5 V, 3 A	Not supported	1.7"H x 5.7"W x 5.75"D (4.3 x 14.5 x 14.6 cm)	0.6 lb. (0.3 kg)
ACXMODH2R-R2	2	(2) 2.5-mm barrel connectors for power	5 V, 3 A	5 V, 3 A	1.7"H x 5.7"W x 5.75"D (4.3 x 14.5 x 14.6 cm)	0.6 lb. (0.3 kg)
ACXMODH2R-P-R2	2	(1) 2.5-mm barrel connector for power; (1) IEC320, C14	5 V, 3 A	5 V, 3 A or 5 V, 5 A	1.7"H x 8.75"W x 5.75"D (4.3 x 22.2 x 14.6 cm)	0.8 lb. (0.4 kg)
ACXMODH4-R2	4	(1) 2.5-mm barrel connector for power	5 V, 5 A	Not supported	1.7"H x 11.5"W x 5.75"D (4.3 x 29.2 x 14.6 cm)	0.9 lb. (0.4 kg)
ACXMODH4R-R2	4	(2) 2.5-mm barrel connectors for power	5 V, 5 A	5 V, 5 A	1.7"H x 11.5"W x 5.75"D (4.3 x 29.2 x 14.6 cm)	0.9 lb. (0.4 kg)
ACXMODH6R-R2	6	(1) IEC320 main power input; (1) 2.5-mm barrel connector for redundant power	5 V, 8 A	5 V, 8 A (optional)	1.7"H x 17.5"W x 5.75"D (4.3 x 44.5 x 14.6 cm)	1.75 lb. (0.8 kg)
ACXMODH6BPAC-R2	6	(2) IEC320 main power inputs	5 V, 10 A	5 V, 10 A	1.7"H x 17.5"W x 8"D (4.3 x 44.5 x 20.3 cm)	5.5 lb. (2.5 kg)
ACXMODH6FPAC-R2	6	(2) IEC320 main power inputs	5 V, 10 A	5 V, 10 A	1.7"H x 17.5"W x 8"D (4.3 x 44.5 x 20.3 cm)	5.5 lb. (2.5 kg)
ACXMODH21R	21	(2) IEC320 main power inputs; (21) 20-position headers for cards	5 V, 10 A	5 V, 10 A	7"H x 19"W x 18.25"D (17.8 x 48.3 x 46.4 cm)	16 lb. (7.3 kg)

TABLE 3. COMPARISON CHART: CHASSIS OPTIONS

PRODUCT CODE	REDUNDANT POWER SUPPLY	COMPATIBLE BLANKING PANELS	RACKMOUNT OPTIONS	OPTIONAL FAN
ACXMODH2-R2	Not supported	ACXMODH21-4S or ACXMODH21-8S	ACXMODHEAR2	Not supported
ACXMODH2R-R2	ACXMODH2-PS	ACXMODH21-4S or ACXMODH21-8S	ACXMODHEAR2	Not supported
ACXMODH2R-P-R2	ACXMODH2-PS (5 V, 3 A for standard cards); ACXMODH4-PS (5 V, 5 A for load sharing)	ACXMODH21-4S or ACXMODH21-8S	ACXMODHEAR2P	Not supported
ACXMODH4-R2	Not supported	ACXMODH21-4S or ACXMOD21-8S	ACXMODHEAR4	Not supported
ACXMODH4R-R2	ACXMOD4-PS	ACXMODH21-4S or ACXMOD21-8S	ACXMODHEAR4	Not supported
ACXMODH6R-R2	ACXMOD6-PS	ACXMODH21-4S or ACXMOD21-8S	ACXMODHEAR6	Not supported
ACXMODH6BPAC-R2	Included	ACXMODH21-4S or ACXMOD21-8S	ACXMODHEAR6FPAC	ACXMODH6FAN
ACXMODH6FPAC-R2	Included	ACXMODH21-4S or ACXMOD21-8S	ACXMODHEAR6FPAC	ACXMODH6FAN
ACXMODH21R	ACXMODH21-PS	ACXMODH21-4S or ACXMODH21-8S	included	Not supported

## REPEATER/CROSS REPEATER SPECIFICATIONS

**TABLE 4. AVAILABLE DKM FX MODULAR REPEATER/CROSS REPEATER CARDS**

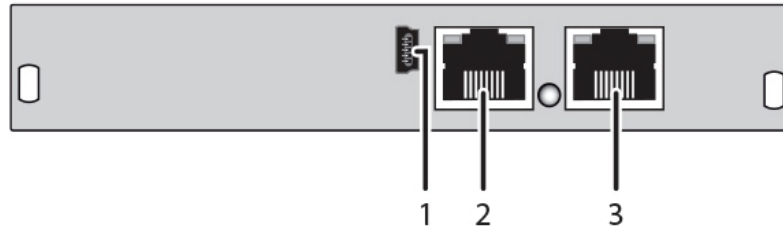
PART NUMBER	DESCRIPTION
ACX1M-CC	Source (computer, CPU)
ACX1M-SS	KVM Extender CPU Unit
ACX1M-CS	Interconnect cable (CATx or fiber)
ACX1M-2C2C	(Cross) Repeater
ACX1M-2S2S	Interconnect cable (CATx or fiber)
ACX1M-2C2S	KVM Extender CON Unit

**TABLE 5. DKM FX MODULAR REPEATER/CROSS REPEATER CARDS SPECIFICATIONS**

SPECIFICATION	DESCRIPTION
Approvals	FCC, TUV GS no. 15587, CE, RoHS, WEEE
Connectors	ACX1M-CC: (2) RJ-45 interconnect, (1) Mini USB (programming port); ACX1M-SS: (2) Fiber LC, (1) Mini USB (programming port); ACX1M-CS: (1) RJ-45, (1) Fiber LC, (1) Mini USB (programming port); ACX1M-2C2C: (4) RJ-45, (2) Mini USB (programming ports); ACX1M-2S2S: (4) Fiber LC, (2) Mini USB (programming ports); ACX1M-2C2S: (2) RJ-45, (2) Fiber LC, (2) Mini USB (programming ports)
Distance	400 ft. (140 m) maximum using solid-conductor CATx cable; 200 ft. (70 m) maximum using stranded conductor CATx cable; 32,800 ft. (10,000 m) maximum using single-mode 9- $\mu$ m fiber cable; 3280 ft. (1000 m) maximum using multimode 50- $\mu$ m fiber cable; 1300 ft. (400 m) maximum using multimode 50- $\mu$ M fiber cable; 650 ft. (200 m) maximum using multimode 62.5- $\mu$ M fiber cable
Power	From chassis (ACXMODHx)
Dimensions	1.7"H x 5.81"W x 5.75"D (4.3 x 14.8 x 14.6 cm)
Weight	Unit: 0.6 lb. (0.3 kg); Shipping: 4.9 lb. (2.2 kg)

REPEATER/CROSS REPEATER DIAGRAMS

CATX REPEATER MODULE (ACX1M-CC)

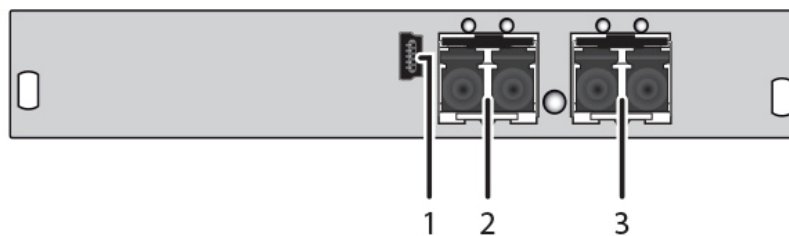


CATX REPEATER MODULE (ACX1M-CC)

TABLE 6. CATX REPEATER MODULE (ACX1M-CC) COMPONENTS

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port
2	Connect to interconnect cable 1
3	Connect to interconnect cable 2

SINGLE-MODE FIBER REPEATER MODULE (ACX1M-SS)



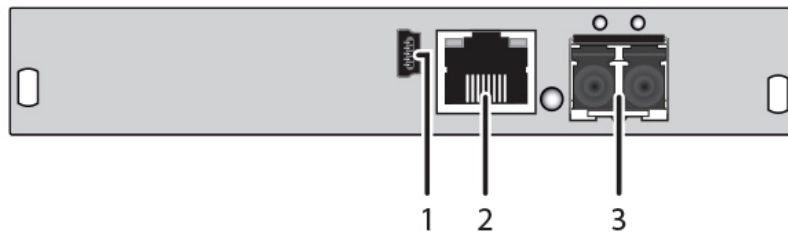
SINGLE-MODE FIBER REPEATER MODULE (ACX1M-SS)

TABLE 7. SINGLE-MODE FIBER REPEATER MODULE (ACX1M-SS) COMPONENTS

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port
2	Connect to interconnect cable 1
3	Connect to interconnect cable 2

# DKM Series Repeaters/Cross Repeaters Data Sheet

## CATX/SINGLE-MODE FIBER REPEATER MODULE (ACX1M-CS)

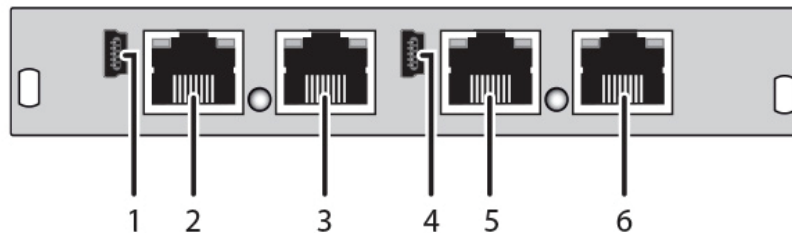


CATX/SINGLE-MODE FIBER REPEATER MODULE (ACX1M-CS)

**TABLE 8. CATX/SINGLE-MODE FIBER REPEATER MODULE (ACX1M-CS) COMPONENTS**

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port
2	Connect to interconnect cable 1
3	Connect to interconnect cable 2

## CATX DUAL REPEATER MODULE (ACX1M-2C2C)

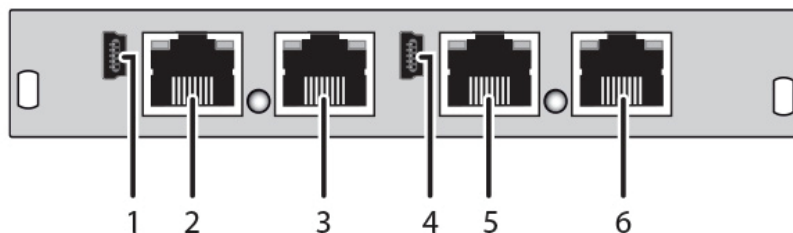


CATX DUAL REPEATER MODULE (ACX1M-2C2C)

**TABLE 9. CATX DUAL REPEATER MODULE (ACX1M-2C2C) COMPONENTS**

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port (repeater 1)
2	Connect to interconnect cable 1 (repeater 1)
3	Connect to interconnect cable 2 (repeater 1)
4	Service port (repeater 2)
5	Connect to interconnect cable 2 (repeater 2)
6	Connect to interconnect cable 2 (repeater 2)

SINGLE-MODE FIBER DUAL REPEATER MODULE (ACX1M-2S2S)

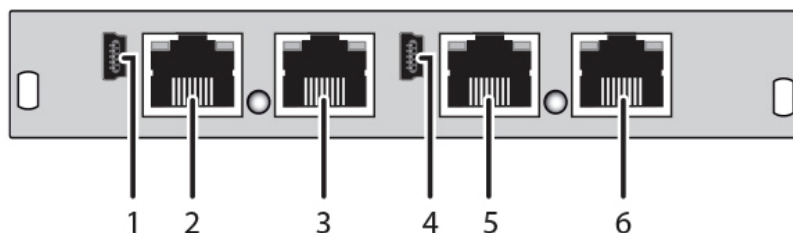


SINGLE-MODE FIBER DUAL REPEATER MODULE (ACX1M-2S2S)

TABLE 10. SINGLE-MODE FIBER DUAL REPEATER MODULE (ACX1M-2S2S) COMPONENTS

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port (repeater 1)
2	Connect to interconnect cable 1 (repeater 1)
3	Connect to interconnect cable 2 (repeater 1)
4	Service port (repeater 2)
5	Connect to interconnect cable 2 (repeater 2)
6	Connect to interconnect cable 2 (repeater 2)

CATX/SINGLE-MODE FIBER DUAL REPEATER MODULE (ACX1M-2C2S)



CATX DUAL REPEATER MODULE (ACX1M-2C2S)

TABLE 11. CATX/SINGLE-MODE FIBER DUAL REPEATER MODULE (ACX1M-2C2S) COMPONENTS

NUMBER IN FIGURE ABOVE	DESCRIPTION
1	Service port (repeater 1)
2	Connect to interconnect cable 1 (repeater 1)
3	Connect to interconnect cable 2 (repeater 1)
4	Service port (repeater 2)
5	Connect to interconnect cable 2 (repeater 2)
6	Connect to interconnect cable 2 (repeater 2)

# DKM Series Repeaters/Cross Repeaters Data Sheet

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## ADDITIONAL RESOURCES

For complete specifications for compatible DKM FX modular and compact extenders and switches, see the following datasheets:

- ◆ DKM KVM Extender TX/RX Interface Modules and Compatible Chassis Data Sheet
- ◆ DKM FX Switches Data Sheet
- ◆ DKM Compact Extenders Data Sheet
- ◆ DKM Compact Switches Data Sheet

## ORDERING INFORMATION

Item	Code
DKM FX Repeater/Cross Repeater Modules	
CATx	<b>ACX1M-CC</b>
Single-Mode Fiber	<b>ACX1M-SS</b>
CATx/Single-Mode Fiber	<b>ACX1M-CS</b>
CATx Dual	<b>ACX1M-2C2C</b>
Single-Mode Fiber Dual	<b>ACX1M-2S2S</b>
CATx/Single-Mode Fiber Dual	<b>ACX1M-2C2S</b>

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