

PRODUCT SPECIFICATION

DOCUMENT NUMBER CXM16/22	MODEL CXM16 4 Channel Crossover and Power Insertion Card CXM22 4 Channel Crossover, Power Insertion and RS422 Distribution Card CHM16 4 Channel Crossover, Power Insertion and Video Card CHM22 4 Channel Crossover, Power Insertion, RS422 Distribution and Video Card
REVISION NUMBER 100404	Components of the UTPLinks™ System



CHM22 Shown



Description

The **CXM** and **CHM** series Crossover Insertion Cards are designed for use with the CX452 Modular Card Cage (purchase separately). These units are components of the NITEK UTPLinks Video, Data & Power Twisted Pair System.

The **CXM** and **CHM** Crossover cards are unique unshielded twisted pair (UTP) transmission products designed to operate with TIA/EIA standards-based network cabling. The cards plug into and are powered through the CX452 Modular Card Cage. The CX452 is a 1 RU card cage that holds up to 5 of the Crossover Insertion Cards. Power is supplied from a separate PS105 or PS110 Power Supply (purchase separately). The Crossover system and Power Supply are typically located in an IDF (telecom) closet. There are four card models available and any of the four can be plugged into the card cage in any combination. Each card is designed to accommodate 4 cameras. The primary function of each of the cards is to provide a means of interfacing copper backbone cables to horizontal cable runs and inserting voltage to the individual camera and/or PTZ over the horizontal run. In addition, models of the cards are available that provide RS422 distribution and/or video transceivers (see available cards - other side). Using a single standards-compliant 4-pair UTP Cat 5 or better cable, video, data and power can be sent up to 100 meters to a fixed or PTZ camera.

Features

- Four available plug-in cards provide flexibility - any combination of four Crossover cards can be used in any of the CX452 card cage slots
- Plug-in cards also provide future system expansion or features modification
- Each of the cards cover 4 zones with separately fused outputs
- One 4-pair Cat 5 cable can be used for video, RS422 and 24 VAC
- Detection LED's for power (all cards) and RS422 (CXM22 & CHM22)
- TIA/EIA 568B compatible

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CXM16
CXM22
CHM16
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TECHNICAL SPECIFICATION

CXM & CHM Series Cards

Size	1 horizontal card slot (5 slots total CX452 card cage)
Power Requirements	Supplied by PS105 or PS110 Power Supply
Twisted Pair Connection (vertical runs)	50 pin Telco connector providing balanced low voltage current loop (provided by CX452 card cage)
Twisted Pair Connection (horizontal runs)	RJ45 connector
UTP Cable	Category 5 or better (22 AWG for PTZ)
Temperature Range	0 degrees C to +55 degrees C
Humidity Range	0 to 98% non-condensing

Wire and Cable Recommendations

On horizontal runs with fixed cameras (applications up to 8 watts/port) Cat 5 or better; 22 AWG or 24 AWG. For PTZ camera (applications >8 watts/port) Cat 5 or better; 22 AWG is recommended. In the case of backbone cable 24 AWG Cat 3 or better is recommended. Multi-pair cable with an overall shield is acceptable. While signals may be routed through 66 blocks or 110 blocks, any bridge-taps, also called T-taps and any resistive, capacitive or inductive devices MUST BE removed from the pair. For more specific information regarding wire types, gauges and proper installation techniques, please call 800-528-4343 for sale application assistance.

Ordering Information	
PART	DESCRIPTION
CXM16	4 Channel Crossover & Power Insertion Card
CXM22	4 Channel Crossover, Power Insertion & RS422 Distribution Card
CHM16	4 Channel Crossover, Power Insertion & Video Card
CHM22	4 Channel Crossover, Power Insertion, RS422 Distribution & Video Card
<i>Other UTPLinks components:</i>	
CX160	16 Channel Crossover & Power Insertion Unit
CX220	16 Channel Crossover & Power Insertion Unit wRS422
PS105	Power Supply - 28 VAC, 5 AMP
PS110	Power Supply - 28 VAC, 10 AMP
VB43F	BNC Female Video Balun Combiner wsurge suppression; up to 1,000 ft Connection to Cat 5 cable - RJ45 connector
VB43FPD	BNC Female Video Balun Combiner wsurge suppression; up to 1,000 ft Connection to Cat 5 cable - punchdown terminals
WB42	Video Balun Combiner & Wallplate wsurge suppression; up to 1,000 ft
RK400	Modular Rack Cabinet with power supply
VB41x4	4 Balun Card wsurge suppression for Rack; up to 1,000 ft
TR515x4	Active Receiver wsurge suppression; up to 1,500 ft
TR560x4	Active Receiver wsurge suppression; up to 3,000 ft
DA422	RS422 Data Distribution Card