

PRODUCT SPECIFICATION

DOCUMENT NUMBER XP4/8	MODEL XP4 4 Channel Crossover and Power Insertion Panel XP4D 4 Channel Crossover, Power Insertion and RS422 Distribution Panel XP8 8 Channel Crossover and Power Insertion Panel XP8D 8 Channel Crossover, Power Insertion and RS422 Distribution Panel
REVISION NUMBER 112003	Components of the UTPLinks™ System



Features

- One self-contained cabinet provides crossover connection, power supply and optional RS422 distribution
- Each camera is individually fused
- One 4-pair Cat 5 cable can be used for video, RS422 and AC power
- TIA/EIA 568B compatible
- Hinged door cabinet with keyed lock

Description

The **XP Series Crossover Panels** are components of the **NITEK UTPLinks Video, Data & Power Twisted Pair System**.

The **XP Series Crossover panels** are unique unshielded twisted pair (UTP) transmission products designed to operate with TIA/EIA standards-based network cabling or other types of UTP network or telecom cabling. The panels also operate with more recently available "UTP/CCTV" cabling which combines twisted pairs for video, control and two heavier gage wires for voltage in a common jacket.

The panels are designed to accommodate 4 (XP4) or 8 (XP8) cameras by providing a means to crossover copper backbone cables to horizontal cable runs using the built-in punch-down terminals.

The XP panels also provide a means to insert voltage from a self-contained 28 VAC supply to the individual camera and/or PTZ's, over the horizontal run. In addition, the XP4D and XP8D models also provide RS422 distribution to the camera/PTZ units. The XP Panel can be located in an IDF (telecom) closet or any convenient mid-span or head-end location, since the panels include a cabinet lock and key to secure the unit.

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. For non-standards based applications distances will vary based upon cable types. The XP panels also have provisions to mount up to two VH439 - 4 camera mini-hub transceivers (not included - see opposite side for ordering information).

XP4
XP4D
XP8
XP8D

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TECHNICAL SPECIFICATION

XP Series Units

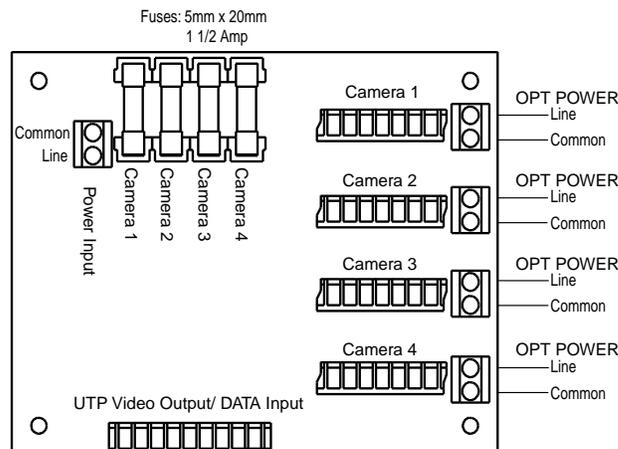
Size	12"H x 12"W x 4"D
Power Input	115 VAC 50/60 Hz 1 Amp (XP4, XP4D, XP8) 2 Amp (XP8D)
Power Output	28 VAC @ 1-1/2 Amp max/port 80 watts max (XP4, XP4D, XP8) 160 watts max (XP8D)
Twisted Pair Connection (vertical runs)	Punch-down terminals
Twisted Pair Connection (horizontal runs)	Punch-down terminals (wire size - 22 - 24 AWG)
UTP Cable	Category 5 or better (22 AWG for PTZ)
Cabling Distance	
XP Unit to Camera	1000 ft - fixed cameras 5 watts or less 300 ft - PTZ units & camera 28 watts or less
	Note: PTZ requires 22 AWG wire or heavier
XP Unit to Receiver	3000 ft max less distance to camera
Temperature Range	0 degrees C to +55 degrees C
Humidity Range	0 to 98% non-condensing
Enclosure Type	Steel box with hinged door; includes keyed lock

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
XP4	4 Channel Crossover and Power Insertion Panel
XP4D	4 Channel Crossover, Power Insertion and RS422 Distribution Panel
XP4/439	4 Channel Crossover and Power Insertion Panel with (1) VH439 Mini-Transceiver Hub
XP4D/439	4 Channel Crossover, Power Insertion and RS422 Distribution Panel with (1) VH439 Mini-Transceiver Hub
XP8	8 Channel Crossover and Power Insertion Panel
XP8D	8 Channel Crossover, Power Insertion and RS422 Distribution Panel
XP8/439	8 Channel Crossover and Power Insertion Panel with (2) VH439 Mini-Transceiver Hubs
Other UTPLinks components:	
CX160	Crossover and Power Insertion Unit
CX220	Crossover and Power Insertion Unit wRS422
PS105	Power Supply - 28 VAC, 5 AMP
PS110	Power Supply - 28 VAC, 10 AMP
VB43F	BNC Female Video Balun Combiner w surge suppression; up to 1,000 ft Connection to Cat 5 cable - RJ45 connector
VB43FPD	BNC Female Video Balun Combiner w surge suppression; up to 1,000 ft Connection to Cat 5 cable - punchdown terminals
WB42	Video Balun Combiner & Wallplate w surge suppression; up to 1,000 ft
RK400	Modular Rack Cabinet with power supply
VB41x4	4 Balun Card w surge suppression for Rack; up to 1,000 ft
TR515x4	Active Receiver w surge suppression; up to 1,500 ft
TR560x4	Active Receiver w surge suppression; up to 3,000 ft
DA422	RS422 Data Distribution Card

UTP Video Output	
Color Code	Signal
WHT/BLU	Camera 1 +
BLU/WHT	Camera 1 -
WHT/ORG	Camera 2 +
ORG/WHT	Camera 2 -
WHT/GRN	Camera 3 +
GRN/WHT	Camera 3 -
WHT/BRN	Camera 4 +
BRN/WHT	Camera 4 -
WHT/GRY	RS422 + IN
GRY/WHT	RS422 - IN



Camera Input	
Color Code	Signal
WHT/BLU	RS422 + OUT
BLU/WHT	RS422 - OUT
WHT/ORG	VIDEO +
ORG/WHT	VIDEO -
WHT/GRN	24V COM
GRN/WHT	24V LINE
WHT/BRN	24V COM
BRN/WHT	24V LINE