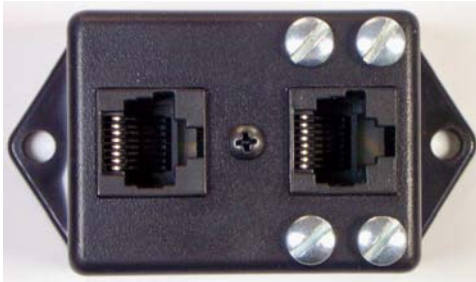


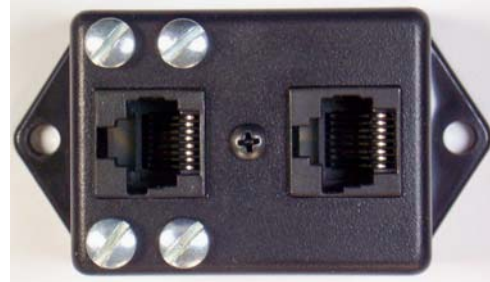
4-RUNNER

ETHERNET SIDE



4 inputs

CABLE SIDE



4 outputs

ETHERNET SIDE

Ethernet Expander

INSTRUCTION BOOK
IB6382-01

DESCRIPTION

The 4-RUNNER Ethernet Expander allows you to add additional signals to your existing Ethernet cable run. It works with any 10/100 BaseT configured IP video cables and allows you to add two additional signals of any type or one additional IP video channel without decreasing the digital bandwidth of your existing IP channel. One expander is connected to each end of any 8-wire 568A or 568B cable run. The unit inserts the auxiliary signals on one end of the cable and then at the other end of the cable the second unit extracts the signals.

Use it to add two extra analog or one digital IP camera on the same Ethernet cable. You can add two UTP analog cameras to an existing IP digital cable, or run alarm contacts and control signals on the same cable with your IP camera. Use it to carry RS-422 and RS-485 signals on the same cable. Retro-fit old PTZ control systems with new IP cameras running the PTZ data on the same cable. You can add AC or DC low voltage on your IP cable to power analog or digital equipment. Use it for door access and alarm contacts on the same IP camera cable.

This unit will carry card access data or cash register data on the same cable with the IP camera data. Use it to add any UTP twisted pair video or audio applications. You can supply power up the cable for non-POE digital IP cameras or connect any loop current application for physical security on the same Ethernet cable. The two-channel two-way communication path is handy for any application AC or DC. Use any combination of two applications with your existing IP camera. Add new equipment without having to run new cable or break into walls and ceilings.

The 4-RUNNER has an RJ-45 input and output connector for easy IP Camera connection and uses wire screw terminal inputs and outputs for easy auxiliary connections. You can supply non-POE cameras and devices with low voltage AC or DC using the same IP cable. It's compact size mounts easily in tight spaces and it is equipped with a convenient mounting flange for neat clean installations.

MOUNTING

Select a place that is dry and out of direct weather. This unit is not waterproof! Care must be taken to avoid direct contact with water. Prolonged contact with water will damage the unit. To mount the unit, use two screws through the mounting flange to hold the unit securely.

SET-UP

Follow these instructions to install the 4-RUNNER onto an existing Ethernet IP video cable. Connect the source IP data RJ-45/8 cable to the mating RJ-45/8 connector labeled "EQUIPMENT SIDE". Then connect an RJ-45/8 connector from the mating connector labeled "CABLE SIDE ONLY" to the second 4-RUNNER unit at the other end of the cable. Next the cable from the first unit is connected to the RJ45/8 connector labeled "CABLE SIDE ONLY" on the second unit. Then the data output connector labeled "EQUIPMENT SIDE" can be connected to complete the data path. For proper operation only cable should be connected between the two 4-RUNNERS.

WARNING: No electronic equipment should be used between the sender and receiver 4-RUNNER units. Equipment inserted between the two units may not function correctly or could be damaged if voltages are applied to the Auxiliary inputs of the 4-RUNNER.

Next connect the Auxiliary signals to the screw terminals. Use the terminals in pairs (4-5) (7-8). With balanced signals the polarity is not critical however if you are using un-balanced signals and you experience interfering signals like ground loop, reverse the polarity on one end of the connection to correct the interference. If the expander is going to be used for power distribution it is good practice to combine pins (4-5) and (7-8) for lower resistance and better power delivery.

SPECIFICATIONS

Data Cable Configuration	Ethernet 10/100 BaseT (8 wire)
IP Connectors	2 RJ-45 female (Loop through)
Auxiliary Connectors	4 Screw terminals (2 channels)

MECHANICAL

Enclosure	1"H x 3"L x 1.5"W
Mounting	2 Hole screw mount

- * Inputs and outputs may be used in either direction or both directions.
- * The cable side is for direct wire connection only from one unit to the other. No Electronic equipment may be placed between the two units on the cable side.
- * Not intended for use with POE (Power Over Ethernet) systems.