

# PRODUCT SPECIFICATION

DOCUMENT NUMBER DA0422	MODEL <b>DA422</b> Modular RS422 Distribution Amp
REVISION NUMBER 052103	



## Description

The DA422 Data Distribution Card is designed for use with the Modular Rack System for distances up to 6,000 feet.

The Modular Rack system holds up to ten (10) modular cards. Cards may be inserted in various combinations of video and DA422 cards. The maximum allowable number of DA422 cards per Modular Rack is four (4).

The DA422 is designed for use over Category unshielded twisted pair (UTP) cabling. The DA422 functions as a RS422 distribution card. RS422 control signals from a controller, matrix, etc. are connected to the input of the DA422 and four (4) signals are available for distribution to multi-points at the output either using an RJ45 modular connector or screwless push terminals. The system can also adapt to existing communication cables, computer network spare pairs or new cable installations. The balanced output design of the DA422 insures that the system will not interfere with other equipment on the network.

## Features

- Balanced communication output can be run in the same cable with video, data, power & communication signals
- RJ45 or screwless terminal block output connections
- EIA standard input and output
- Easy to install and configure
- LED presence indicators for RS422

## Applications

- Extending keyboard operation for point to multi-point control
- Operation in structured cabling environments
- Providing RS422 control, extension and distribution for remote cameras

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DA422

# TECHNICAL SPECIFICATION

## DA422 Modular Rack Card

Size	1 card slot
Twisted Pair Input	EIA standard RS422
Output	(4) separate EIA standard RS422 signals
Data Rate	Up to 64K baud
UTP Category	Category UTP Cable
Wire Size	26 to 12 AWG Unshielded Twisted Pair
Temperature Range	0 degrees C to +55 degrees C
Humidity Range	0 to 98%, non-condensing

## Ordering Information

PART	DESCRIPTION
<b>DA422</b>	<i>RS422 Data Distribution Card; 1 In - 4 Out</i>
<b>RK400</b>	<i>Modular Rack Cabinet with power supply</i>

## Wire and Cable Recommendations

The Model DA422 is recommended for use with **unshielded twisted pair** (UTP) wiring. The system will operate over wire gauges from 26 AWG through 12 AWG but is optimized for 24 AWG. Category cabling may be used. RS422 can be operated in the same communication cable coexistent with video, telephone, computer, control signals, power voltages and other video signals. While RS422 may be routed through telephone punch down block terminals, 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 technical assistance. More information is also available on the CCTV System Design Guide Sheet.