



RS-422/RS-485 Distribution Panel

Features That Make a Difference:

- Compatible with American Dynamics[®] MegaPower matrix switcher/controller systems, Intellex[®] digital video management systems, and RS-422 converter (RCSN422)
- Amplifies RS-422/RS-485 communications signals for multipoint dome control
- Supports home-run, daisy-chain, star, and junction box (J-Box) wiring topologies to accommodate any type or size system
- Accommodates home-run dome wiring via 16 output ports
- Install at head end or remote locations
- Rack (2U) or wall mountable
- Space-saving design allows mounting at either the front or rear of an electronics rack, facing in or out
- Surge suppression provided on all data and power connections
- ADAC422DP model includes power supply for multiple panels

The RS-422/RS-485 distribution panel amplifies either a RS-422 or RS-485 communications signal. With 16 outputs, the panel can accommodate home-run wiring, multiple daisy-chained links to SpeedDome programmable dome cameras or J-Boxes.

The panel also includes inputs for multiple MegaPower CPUs allowing you to maintain control from both the primary and backup CPUs, thereby providing a redundant solution. In addition, the panel can also accept RS-232 communication signals from MegaPower CPU or Intellex[®] digital video management systems where RS-232 is required. For diagnostic control you can monitor signal activities on each channel. Installing the panel is easy, either at the head end or at remote locations and it can be used in place of a RS-422 J-Box when power is available for domes locally. The sleek, 2U design can easily be mounted on a wall or at the front or rear of an electronics rack, facing in or out.

The panel is the ideal choice for distributing RS-422 /RS-485 protocol to American Dynamics SpeedDome programmable dome cameras and J-Boxes.



SPECIFICATIONS

Model Numbers

ADAC422D	RS-422/RS-485 distribution panel
	(without external power module)
ADAC422DP	RS-422/RS-485 distribution panel
	(with external power module)

Physical

Dimensions (L x W x D).481 x 87 x 34 mm (18.9 x 3.4 x 1.3 in)
Body Length	445 mm (17.6 in)
Weight	0.75 kg (1.66 lbs)
Mounting	Standard electronic rack (2U), EIA310-D (19 in)
-	IEC 60297-1 (482.6 mm)
	Wall mount

Electrical

	. External power module Certified limited power source required Multiple panels may be connected to the maximum VA rating of the transformer
Input	12 to 30 V DC or AC Isolation not required
Frequency	
Power Consumption	8 VA
Diagnostic Indicators	
	Green LED
, ,	tectYellow LED
Channel 1-16 Data D	etectYellow LED
	atus Test Switch Red/Green LED
Protection	Certified limited power source
	NEC Class 2
	Internal primary current fuse
	Inrush limiting
	DC isolation
Cable to Transformer	5 m (16.5 ft)
	18 AWG, 3-conductor
Input Connector	Euro-style 3-pin removable plug
	5.06 mm (0.2 in) terminal block

Surge	Protection
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Transient Voltage Suppressors (TV	S)60 V, 250 A, 1.5 J
Gas Discharge Tube Impulse Rate	10 kA
Design Tolerance	
Input Voltage Minimum	
Input Voltage Maximum	>36 V DC or AC
Input Frequency	47 to 63 Hz
Allowable Dropout	150 ms

Surge Protection RS-232 and RS-422 / RS-485 Ports

.8.5 V ±20%
.40 A
.1200 pf at 1 kHz
.90 V DC
.10,000 mΩ
.2 pf max
.10 kA
.5 kA

Environmental

Operating Temperature	10° to 50°C (14° to 122°F)
Storage Temperature	40° to 70°C (-40° to 158°F)
Relative Humidity	0 to 95% noncondensing

Regulatory

Regulatory	
EMC	.47 CFR, Part 15
	EN 50130-4; EN55022
	EN61000-3-2; EN61000-3-3
	CISPR 22
Safety	.UL/IEC/EN/CSA C22.2.60950-1
Environmental	.RoHS 2002/95/EC
	WEEE 2002/96/EC
	IP code X0

DATA COMMUNICATION

Maximum Cable Segment	1 km (3,300 ft)
Maximum Loads	10 per cable segment
Topologies	Daisy-chain, star, home-run
Transmission Medium	Two twisted pairs 22 AWG (0.326 mm),
	polarized, shielded
Connector	Euro-style 3.5 mm (0.14 in) terminal block

Controller Devices	MegaPower 3200, MegaPower 48 Plus,
	Intellex [®] digital video management
	system, and RCSN422
Secondary Devices	SpeedDome programmable dome
	cameras, J-Boxes, and
	distribution panels
Repeaters	J-Boxes and distribution panels
,	system, and RCSN422 SpeedDome programmable dome cameras, J-Boxes, and distribution panels

