

Web: www.ecdata-tech.com Email: info@ecdata-tech.com

Model: ECD422ir Isolated RS-422 Repeater

The ECD422ir safely connects two RS-422 devices without danger of ground loops and damaging surges. It also doubles the permitted cable length. The data signals have 5kV optical isolation. Internally isolated DC supply provides 2-port galvanic isolation, or full 3-port can be ordered so both RS-422 signals float with respect to the power supply ground. Jumpers allow either 100. or 220 internal terminating resistor (terminator). Other options: 600w transient (spike) suppressor diodes; 9-pin D-sub shell or removable 5-pin compression terminal block; DC supply of 5, 12, 24, 36 and 48v; 2 or 3-port galvanic isolation; custom terminating resistor values. Isolation, industrial design, small size, DIN rail mount, user indication, and DC supply make the ECD422ir a very engineer-friendly device for your industrial

Specification

RS-422 ports

Signal Type :EIA/RS-422A,

EIA/RS-485A :-7 to +12Vdc

Voltage Level :-7 to +12Vd Permitted Surge :+/- 25 Vdc

Isolation (ISO/IEC 9549)

data communication system.

RS-422 to RS-422 :2500 v (optical,

5kV test)

Supply to field :2500 v (galvanic,

3kV test)

Supply to local :2-port = none;

3-port = 2500v

Power Supply:

9v to 36Vdc :1.5 watt (24v about 65mA)

5v DC +/- 5% :150mA

LEDs (green) indicate isolated power status

Communication:

Max Speed :at least 115Kbps over standard

distance

Character Setting :transparent, no configuration

required

User Indications :Each receive signal has LED

(yellow)

Standard Distance :1000m for EIA/RS-422

Practical Distance :1000m for EIA/RS-422

(requires quality, low-cap

cable)

Mechanical / Environment

Operating Range :-40C to +65C

Storage Range :-40C to +100C

Relative Humidity :10 to 90% RH,

non-condensing

Terminals :wire up to 2.5mm (12 AWG)
D-shell connecter :9-pin, 30µ gold pins/sockets

rated 500 cycles

Case Material :nylon polymide, fungus and

termite resistant self-extinguishing

Weight :approx 130g

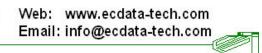
Mounting Rail :DIN EN 50 022 or DIN EN 50

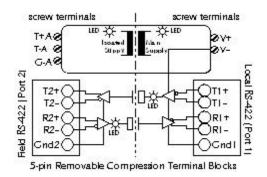
035

Note: it is better using DIN EN50 022

Block Diagram

ECD422ir-DS 1 of 1

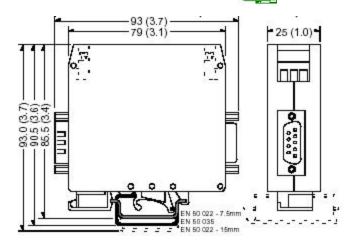




Order Information

ECD422ir				RS-422 Isolated
				Repeater
	-5v			5v +/-5% Regulated
				DC Power
	-dv			9v to 36v
				Unregulated DC
				Power
		-2p		Two ports isolated,
				Local ground =
				Power ground
		-3p		Three ports isolated
		_		(fully isolated)
			-cc	Both ports
				compression
				terminal (C-Term)
			-cd	Field port C-Term,
				local port DB9
				female connector
			-dd	Both ports DB9
				female connector

Dimensions in mm (and inches)



Specification subject change without notice

ECD422ir-DS 2 of 2