

CON-422-PE9

RS-232 To RS-422 Converter – DB9
Datasheet Revision 1.3

INTRODUCTION:

The SerialComm CON-422-PE9 is a bi-directional port powered RS-232 to RS-422 converter in a 9 pin format. It can convert any standard full duplex RS-232C port to any four-wire balanced full duplex RS-422 port. In simple terms, it will convert any RS-232 signal to a RS-422 signal and vice versa. The unit is powered from the RS-232 data lines. It also supports data direction auto-turnaround. Therefore, no external power or flow control is required. The data direction auto-turnaround automatically enables the RS-422 driver when data is present on the RS-232 side making the device plug-and-play, requiring no software drivers. The CON-422-PE9 has a DB9 female connector on the RS-232 side and either a DB9 male connector or 5-way terminal block on the RS-422 side. Separate terminal block is included in package.

CERTIFICATIONS:



GENERAL FEATURES:

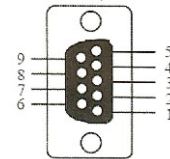
- Port Powered: no external power is necessary
- Data Direction, auto-turnaround, no flow control is necessary
- Plug-and-Play (Device is hot-pluggable)
- 5 Year Manufacturer's Warranty
- RoHS, CE, FCC and ISO 9001 Compliance Certified
- Built-in surge protection, static protection and circuit protection
- Surface Mount RoHS Compliant Technology manufactured to ISO 9001 Standards

PINOUT CONFIGURATION:

RS-232 SIDE – DB9 FEMALE

SIGNAL	DCD	DTR	DSR	RTS	CTS	TX	RX	GND
PIN #	1	4	6	7	8	2	3	5
FUNCTION	TIED		TIED		TX	RX	GND	

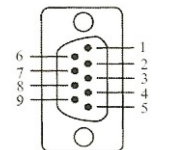
FEM. DB9



RS-422 SIDE – DB9 MALE OR TERMINAL BLOCK

SIGNAL	T+	T-	R-	R+	GND
PIN #	1	2	3	4	5
FUNCTION	T+	T-	R-	R+	GND

MALE DB9



SPECIFICATIONS:

PART NUMBER:	CON-422-PE9
STANDARDS:	EIA/TIA RS-232C Standard and RS-422 Standard
BAUD RATES:	From 300 Baud To 115,200 Baud
POWER SOURCE:	Port Powered From RS-232 Data Lines
CURRENT CONSUMPTION:	Less Than 10 mA
CONNECTOR TYPES:	RS-232 Side: DB9 Female and RS-422 Side: either DB9 Male or 5 Way Terminal Block
DISTANCE:	RS-232 Side: 16 ft (5m) and RS-422 Side: up to 4000 ft (1.2km)
MAX NUMBER OF DROPS:	32 Drops
STATIC PROTECTION:	1500W Static Protection
SURGE PROTECTION:	600W Surge Protection
WEIGHT:	With Terminal Block: 1.2oz (36 grams) Without Terminal Block: 0.8oz (24 grams)
DIMENSIONS:	With Terminal Block: 3.17" X 1.33" X 0.73" (80.5 mm X 33.8 mm X 18.6 mm) Without Terminal Block: 2.47" X 1.33" X 0.70" (62.8 mm X 33.8 mm X 17.8 mm)
OPERATING TEMP.:	-4° F to 140° F (-20°C to 60° C)
OPERATING HUMIDITY:	5% To 95% - No Condensation

TROUBLESHOOTING INSTRUCTIONS:

Perform a loop back test on one CON-422-PE9 converter. Tie signals T+ to R+ and T- to R- of the CON-422-PE9. Attach the converter to a serial port on a PC and using HyperTerminal send a character from one and see if it echoes to the other. This will test both transmit and receive functions.

APPLICATIONS:

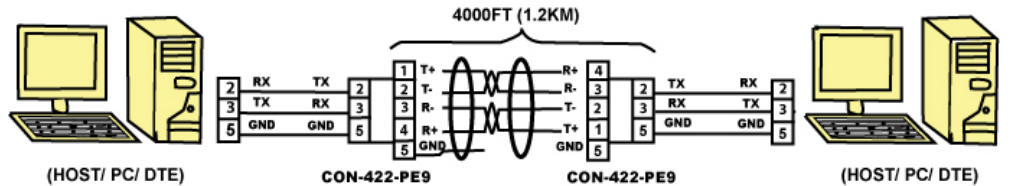


FIGURE 1: EXTENDING RS-232 DATA DISTANCE

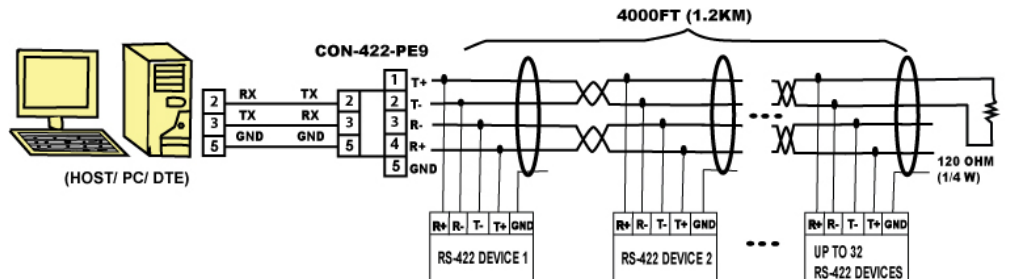


FIGURE 2: MASTER/SLAVE MULTIPLE DROP CONFIGURATION