

CS-428i V2.0

Industrial Grade RS232 to RS422/485 Isolation Converter

The CS-428i V2.0 is an industrial-grade isolation converter that provides the capability to convert RS232 signals into RS422 or RS485 signals. It features a 5kV digital isolator and offers not only standard protection functions against ESD, EFT, and surges but also supports high-level protection performance up to the maximum KA unit with components such as Gas Discharge Tube (GDT) and fuses for overcurrent protection. Additionally, it incorporates reusable Polymetric Positive Temperature Coefficient (PPTC) components to provide complete protection against external electrical shocks, which could otherwise damage valuable equipment. Furthermore, it offers advanced features derived from 30 years of expertise in industrial humidity and system-based functions, including ID registration, configuration, and dismantling. This converter is of the highest grade, providing exceptional flexibility for utilizing connected devices on communication lines.



Features

Supporting industrial standards and providing exceptional reliability

Providing industrial-grade temperature and humidity support (-45°C to 85°C, Max 90% R.H.) along with outstanding protection of up to $\pm 15\text{kV}$

Offering top-level protection against external electrical shocks

Providing top-tier protection through 5kV Isolator, GDT, PPTC, and more


Provides ID registration/setting function

Utilizing 30 years of expertise, we offer specialized ID registration and configuration to provide a wide range of functional options

Communication (Serial)

RS232	Mode	DTE, DCE
	Signals	TXD, RXD
	Connector	DB9 Female
RS422/485	Mode	RS422 (4 Wire) RS485 (2 Wire) None Echo, Echo
	Signals	RS422: TXD+, TXD-, RXD+, RXD- RS485: TRXD+, TRXD-
	Connector	Terminal Block (5.08mm Pitch)
Data bit		8
Stop bit		1, 2
Parity bit		None, Even, Odd
Maximum Speed		921.6kbps

Hardware (Power)

Power	Power Requirement	DC 12V ~ 48V / Power consumption: 1.2W Using Terminal block (Min. 500mA, Recommend)
	Power Connector (DC-Jack)	External: $\Phi 5.7\text{mm}$, Internal: $\Phi 2.1\text{mm}$ 
	Power Connector (Terminal Block))	Pitch 5.08mm, 3Pin
	Power Adapter	DC 12V 1A

Hardware (Miscellaneous)

Protection	Protection(ESD)	Max. $\pm 15\text{V}$ ESD
	Protection Standard(IEC)	IEC 61000-4.2(ESD): $\pm 15\text{V}$ IEC 61000-4.3(EFT) IEC 61000-4.4(Surge): 500W

CS-428i V2.0 Specification Sheet

	Impulse Discharge current (UL 497B)	20,000A, 8/20μs, 1 operation minimum 10,000A, 8/20μs, 10 operations 200A, 10/1000μs, 300 operations 2,000A, 10/350μs, 1 operation 200A, 10/700μs, 500 operations
	LED	RDY (Green), TXD(Green), RXD(Yellow)
Hardware	Switch	Configuration and Termination On/Off Switch
	Size (W) x (L) x (H)	101.8(W) x 82.6(L) x 26.7(H)mm (Without T.B)
	Weight	gross weight: 658g / product weight: 192g
	Operating Temperature	-40 ~ 85℃
	Humidity	Max 90% R.H

Ordering Information

Ordering Information	CS-428i V2.0(Setting pin included), Gender, Power Adapter
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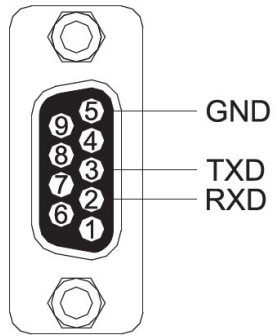
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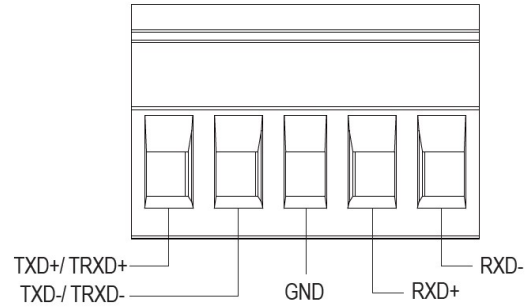
Specifications subject to change without notice



Pin Assignment

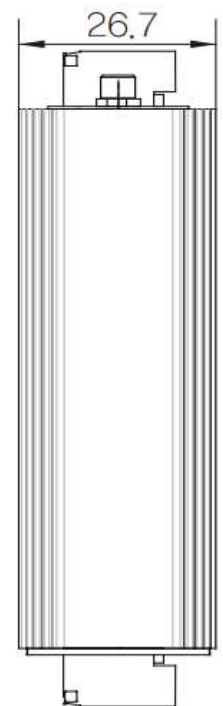
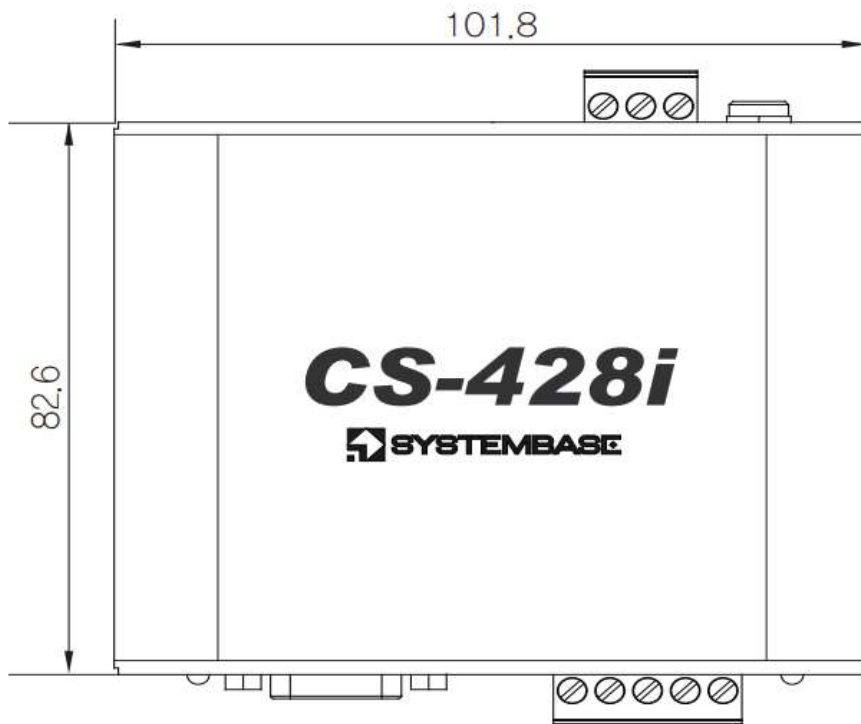


<RS232>



<RS422/RS485>

Dimension



unit : mm