





I-8144

I-8144-G

4-port RS-422/485 Module

■ Features		
■ Serial Port with +/-4 kV ESD Protection		
■ Baud Rate of up to 115200 bps		
■ Built-in Self-Tuner or Auto-Direction Control		
■ Internal 16-byte Hardware FIFO for each Port		
■ LED Indicators for TxD, RxD and Power Status		
CE FE KOHS		

■ Introduction

The I-8144 provides 4 non-isolated RS-422/485 serial ports. It is equipped with a 16-byte hardware FIFO for each port and offers speeds up to 115.2 kbps with support for RS-422 full-duplex communication. In the harsh industrial environment, the onboard ESD protection devices can divert this potentially damaging charge away from sensitive circuitry and protect the I-8142/I-8144 from permanent damage. The serial communication modules are designed for use with intelligent devices like bar code readers, serial printers, intelligent sensors, instrumentation equipment, computers, and almost any device with an RS-422/485 port.

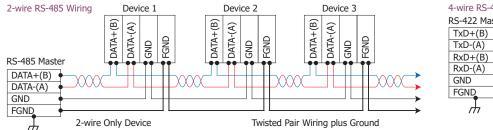
Specifications

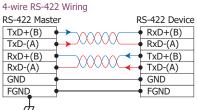
LED Indicators/Display				
Power	1 LED			
TxD	4 LEDs			
Error	4 LEDs			
Isolation				
Intra-module Isolation, Field-to-Logic	-			
EMS Protection				
ESD (IEC 61000-4-2)	±4 kV Contact for each Terminal			
Power				
Power Consumption	1.9 W			
Mechanical				
Dimensions (W × L × H)	31 mm × 114 mm × 67 mm			
Environment				
Operating Temperature	-25 ~ +75 °C			
Storage Temperature	-40 ~ +85 °C			
Humidity	5 ~ 95% RH, Non-condensing			

COM Ports		
Ports	4 x RS-422/485	
Baud Rate	115200 bps Max.	
Parity	None, Even, Odd, Mark, Space	
Data Bit	5, 6, 7, 8	
Stop Bit	1, 1.5, 2	
FIFO Size	Internal 16 bytes for each port	

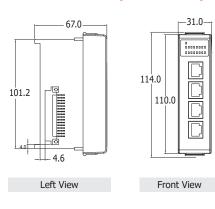
ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2020.9 1/2

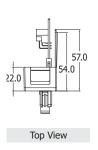
■ Wire Connections



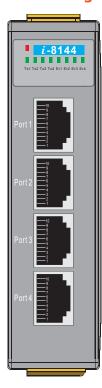


■ Dimensions (Units: mm)





■ Pin Assignments





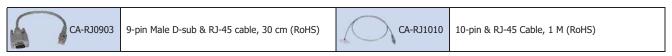
10-pin RJ-45

Pin	Signal		Mode
01	GND	Ground	
02	TxD+/D+	Transmit Data Positive Data+	Output
03	TxD-/D-	Transmit Data Negative Data-	Output
04	RxD+	Receive Data Positive	Input
05	RxD-	Receive Data Negative	Input
06	RTS+	Request To Send Positive	Output
07	RTS-	Request To Send Negative Output	
08	CTS+	Clear To Send Positive Input	
09	CTS-	Clear To Send Negative Input	
10	GND	Ground	

■ Ordering Information

I-8144 CR	4-port Non-isolated RS-422/485 Module (RoHS) Includes CA-RJ1003 Cable (10-pin RJ-45 to 10-wire Cable, 30 cm)	
I-8144-G CR	4-port Non-isolated RS-422/485 Module (Blue Cover) (RoHS) Includes CA-RJ1003 Cable (10-pin RJ-45 to 10-wire Cable, 30 cm)	CA-RJ1003

Accessories



ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2020.9 2/2