



I-9114i

4-port Isolated RS-232 Module

□ Features				
■ Includes 4 Isolated RS-232 Ports				
■ Baud Rate of up to 115200 bps				
■ Internal 128-byte Hardware FIFO for Each Port				
RoHS Compliant & Halogen Free				
■ ±4 kV ESD Protection on Each Port				
■ LED Indicators for TxD, RxD and Power Status				
■ 2500 VDC Isolation				
Low Power Consumption				
CE FC ROHS				

■ Introduction

The I-9114i provides 4 isolated RS-232 serial ports. Each port is equipped with a 128-byte hardware FIFO and offers speeds up to 115.2 kbps with support for 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-9114i 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-232 port.

Applications

• Factory, Building and Home Automation

Software

- Supports interrupt driven software library
- Supports VxCOM library

■ System Specifications

RS-232 Interface					
Ports	4				
Interface	TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, GND				
	16C850 Compatible				
	Speed: 115200 bps Max.				
	Data Bit: 5, 6, 7, 8				
Controller	Stop Bit: 1, 1.5, 2				
	Parity: None, Even, Odd, Mark, Space				
	FIFO: Internal 128 Bytes for Each Port				
Self-Tuner Asic inside	Yes				
LED Display					
System LED Indicator	1 LED as Power Indicator				
I/O LED Indicator	4 LEDs as TxD Indicators; 4 LEDs as RxD Indicators				
Isolation					
Intra-module Isolation, Field-to-Logic	2500 VDC				
EMS Protection					
ESD (IEC 61000-4-2)	±4 kV Contact for Each port				
Power					
Power Consumption	1.75 W Max.				
Mechanical					
I/O Connector	DB-37 (Female)				
Dimensions (W x L x H)	31 mm x 134 mm x 134 mm				
Environment					
Operating Temperature	-25 ~ +75 °C				
Storage Temperature	-40 ~ +85 °C				
Humidity	10 ~ 90% RH, Non-condensing				

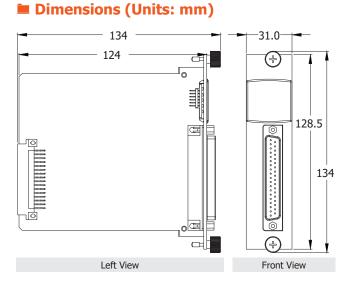
ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2020.12 1/2

■ Wire Connections

DTE Device (Computer)	DB9	DTE to DCE Connections	DCE Device (Modem) D	В9	
Pin# DB9 RS-232 Signal Names		Signal Direction	Pin# DB9 RS-232 Signal Names		
#1 Carrier Detector	DCD	•	#1 Carrier Detector	DCD	
#2 Receive Data	RxD	•	#2 Transmit Data	TxD	
#3 Transmit Data	TxD	•	#3 Receive Data	RxD	
#4 Data Terminal Ready	DTR	•	#4 Data Set Ready	DSR	
#5 Signal Ground/Common (SG)	GND	•	#5 Signal Ground/Common (SG)	GND	
#6 Data Set Ready	DSR	•	#6 Data Terminal Ready	DTR	
#7 Request to Send	RTS	•	#7 Clear to Send	CTS	
#8 Clear to Send	CTS	•	#8 Request to Send	RTS	
#9 Ring Indicator	RI	•	#9 Ring Indicator	RI	
Soldered to DB9 Metal-Shield	FGND	• • • • • • • • • • • • • • • • • • •	Soldered to DB9 Metal-Shield	FGND	
	,,,				

3-wire RS-232 Wiring

TxD RxD RxD TxD GND GND FGND FGND



■ Pin Assignments

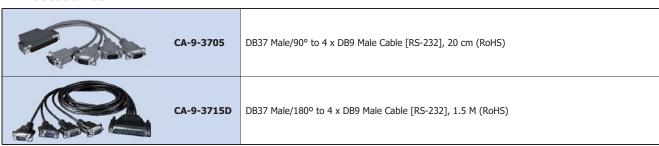


Pin Assignment	Te	erminal No) .	Pin Assignment
N.C.	1		20	RI3
DCD3	2		20	DTR3
GND3	3			
CTS3	4		22	DSR3
RxD3	5		23	RTS3
RI4	6	•	24	TxD3
DTR4	7	•	25	DCD4
DSR4	8	•	26	GND4
RTS4	9	. •	27	CTS4
TxD4	10		28	RxD4
DCD2	11		29	RI2
GND2	12	•	30	DTR2
CTS2	13	•	31	DSR2
RxD2	14		32	RTS2
RI1	15		33	TxD2
DTR1	16		34	DCD1
DSR1	17		35	GND1
RTS1	18		36	CTS1
TxD1	19		37	RxD1
IXDI	13			
				pin Female b Connector

■ Ordering Information

I-9114i CR 4-port Isolated RS-232 Module (RoHS)
Includes CA-4002 (DB37 connector Male with plastic cover)

Accessories



ICP DAS CO., LTD Website: http://www.icpdas.com Vol. 2020.12 2/2