



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
- 3000 VDC Isolation
- Low Power Consumption



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

Model	I-9114i
LED Indicators	
System LED Indicator	1 LED as Power Indicator
I/O LED Indicator	4 LEDs as TxD Indicators; 4 LEDs as RxD Indicators
Power	
Power Consumption	1.75 W
Mechanical	
I/O Connector	DB-37 (Female)
Dimensions (L x W x H)	134 mm x 31 mm x 133 mm
Environment	
Operating Temperature	-25 ~ +75°C
Storage Temperature	-40 ~ +85°C
Humidity	10 ~ 90% RH, Non-condensing

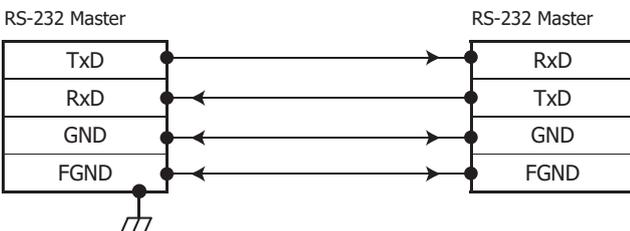
I/O Specifications

Model	I-9114i
RS-232 Interface	
Ports	4
Interface	TxD, RxD, RTS, CTS, DSR, DTR, DCD, RI, GND
Controller	16C850 Compatible
	Speed: 115200 bps Max.
	Data Bit: 5,6,7,8
	Stop Bit: 1, 1.5, 2
	Parity: None, Even, Odd, Mark, Space
FIFO: Internal 128 Bytes for Each Port	
Self-Tuner Asic inside	Yes
Isolation	
Intra-module Isolation, Field-to-Logic	3000 VDC
EMS Protection	
ESD (IEC 61000-4-2)	± 4 kV Contact for Each port

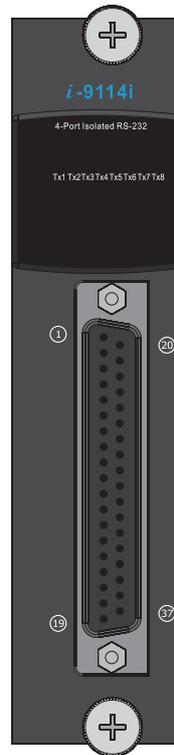
Wire Connections

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

3-wire RS-232 Wiring



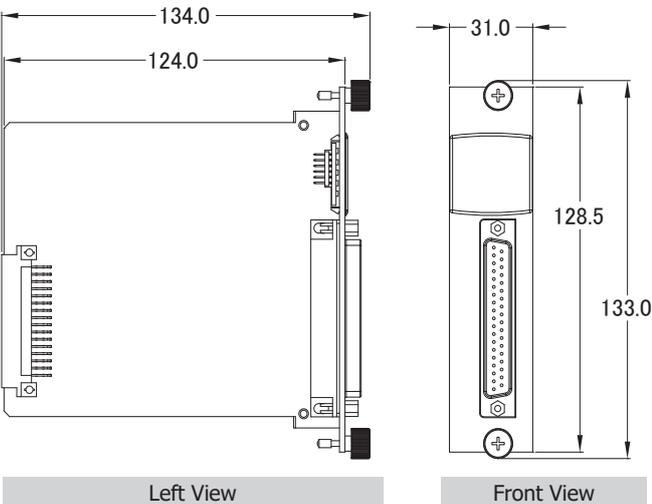
Pin Assignments



Pin Assignment	Terminal No.	Pin Assignment
N.C.	01	20 RI3
DCD3	02	21 DTR3
GND3	03	22 DSR3
CTS3	04	23 RTS3
RxD3	05	24 TxD3
RI4	06	25 DCD4
DTR4	07	26 GND4
DSR4	08	27 CTS4
RTS4	09	28 RxD4
TxD4	10	29 RI2
DCD2	11	30 DTR2
GND2	12	31 DSR2
CTS2	13	32 RTS2
RxD2	14	33 TxD2
RI1	15	34 DCD1
DTR1	16	35 GND1
DSR1	17	36 CTS1
RTS1	18	37 RxD1
TxD1	19	

37-pin Male D-sub Connector

Dimensions (Units: mm)



Ordering Information

I-9114i CR	4-port Isolated RS-232 Module (RoHS)
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Accessories

	CA-4002	37-pin Male D-sub connector with plastic cover
	CA-9-3705	DB-37 Male(D-sub) to 4-Port DB-9 Male(D-sub) cable. 0.5M Cable for I-8114W/I-8114iW/I-9114i (90°)