

Tru-Iso™ Multi-Port RS232 PCI Express Mini Card Data Sheet

FEATURES

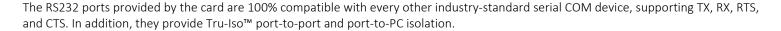
MODELS MPCIE-ICM232-4 AND MPCIE-ICM232-2

- PCI Express Mini Card (MPCIE) Type F1, with Latching I/O connectors
- FOUR AND TWO-PORT MPCIE RS232 SERIAL CARDS WITH OPTIONAL DB9M CONNECTIVITY
- 500V ISOLATION PORT-TO-PORT AND 1500V ISOLATION PORT-TO-COMPUTER ON ALL SIGNALS
- HIGH PERFORMANCE 16C950 CLASS UARTS WITH 128-BYTE FIFO FOR EACH TRANSMIT AND RECEIVE BLIEFER
- SUPPORTS DATA COMMUNICATION RATES TO 921.6KBPS
- VIRTUALLY ANY CUSTOM BAUD RATE MAY BE CONFIGURED BY THE USER VIA REGISTER SETTINGS, NO CUSTOM OSCILLATOR NEEDED
- ±15kV ESD PROTECTION ON ALL SIGNAL PINS
- SUPPORTS 9-BIT DATA MODE
- SUPPORTS CTS AND RTS
- ROHS AND INDUSTRIAL TEMP (-40°C TO 85°C) BOTH STANDARD



The mPCIe-ICM232 family of cards feature high performance 16C950-class UARTs. Available in 4-port (mPCIe-ICM232-4) and 2-port (mPCIe-ICM232-2) versions, each port is capable of communication speeds up to 921.6kbps and has 128-byte deep transmit and receive FIFOs which protect against data loss in multitasking operating systems, reduce CPU utilization, and improve data throughput. The advanced

integrated circuit with pre-scalar supports a wide variety of custom baud rates, and any rates not otherwise achievable can be supported via a custom factory-installed crystal oscillator.



Communication is possible either with custom application software, with off-the-shelf applications (such as HyperTerminal), or with provided samples and utilities, including WinRISC™ ("Windows Really Incredibly Simple Communication).

The serial ports on the device are accessed using a low-profile, latching, 5-pin Hirose connector. Optional breakout cables are available, and bring each port connection to a panel-mountable DB9-M with an industry compatible RS232 pin-out.

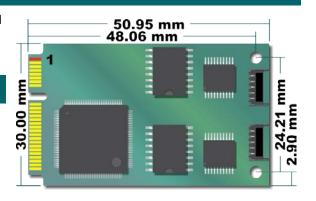


Please contact ACCES with your precise requirement. Examples of special orders would be custom oscillators, conformal coating, custom software or product labelling, and more. We will work with you to provide *exactly* what is required.

Accessories



CAB-mPCle-ICM2 Two port DB-9 cable accessory kit
CAB-mPCle-ICM4 Four port DB-9 cable accessory kit
ADAP-9 DB-9 Screw Terminal Accessory
mPCle-HDW-KIT2 Mounting hardware for 2mm
mPCle-HDW-KIT2.5 Mounting hardware for 2.5mm



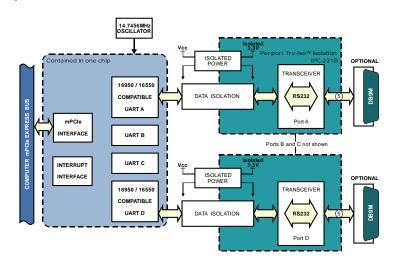
SOFTWARE

A complete driver support package is provided including an easy-to-use Windows terminal program for testing your COM ports. This simplifies the verification of proper COM port operation. The card installs as standard COM ports in all operating systems including DOS, Linux (including Mac OS X) and 32-bit and 64-bit Windows. Additional drivers may be available for a wide variety of operating systems including Windows CE, please contact the factory for compatibility with your specific OS.





Tru-Iso™ Multi-Port RS232 PCI Express Mini Card Data Sheet



Mating		
Position above and match alignment	Push down to insert the cable side	Push the contact-portion side into place
Un-Mating Engage lever	Pull up to release the simple lock	Continue lifting, the reinforced lock is released

PC Interfac	e	
PCI Express Mini		Type F1 "Full Length" V1.2
Communica		
Connector		Hirose DF57 5-pin, latching
	mating	Hirose DF57H-5S-1.2C
Serial Ports		4 (or 2) RS-232
UART		Quad 16C950
	FIFO	128-byte transmit & receive
Baud Rates		up to 921.6k baud
		advanced-prescaler allows a
		wide variety of unusual baud
		rates to be achieved
Character		5, 6, 7, 8 bits (contact factory
length		for assistance with 9-bit data)
Parity		Even, Odd, None, Mark, Space
Stop Interval		1, 1½, 2 bits
Flow Control		RTS/CTS, Xon/Xoff, None
Environmen	ital	
Temperature	Operating	-40° to 85°C
_	Storage	-65° to 150°C
Humidity		5% to 95%, non-condensing
Power required		+3.3VDC @ 1.8W (typical)
ESD Protection		±15kV on all signal pins
		(IEC 61000)

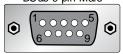
Physical		
Weight	8 grams	
Size	length 50.95mm (2.006")	
	width 30.00mm (1.181")	

The 4-port model violates component height restriction on "bottom" side by up to 1.3mm. Confirm your host PC does not place components under the mPCle footprint before ordering.

Isolation		
Tru-Iso™		IPC-221B
	port-to-PC	1500 V peak (AC or DC)
_	port-to-port	500 V peak (AC or DC)

Careful attention has been paid to isolation design, including extensive keep-out zones and hand-routed circuit paths, as well as component and material selection.

DF57	Signal	Signal	DB-9		
Pin	Names	Descriptions	Male	Signal	Signal
1	GND	Signal Ground	Pin	Names	Descriptions
2	TX	Transmit Data	1	nc	no connect
3	RX	Receive Data	2	RX	Receive Data
4	RTS	Request To	3	TX	Transmit Data
		Send	4	RTS	Request To Send
5	CTS	Clear To Send	5	GND	Signal Ground
DS ub 9-pin Male (a) (100005) (b) (60009)		6	nc	no connect	
		7	RTS	Request To Send	
		8	CTS	Clear To Send	
		9	nc	no connect	



ab o piii iviaio	
0 0 0 0 05)	
000000000000000000000000000000000000000	
,0000g/ U	
,	

C)RE)ER	ING	GU	IDE

mPCle-ICM232-2	2-port Isolated RS232 PCI Express Mini Card
mPCle-ICM232-4	4-port Isolated RS232 PCI Express Mini Card
SHIPS STANDARD WITH I	NDUSTRIAL OPERATING TEMPERATURE AND ROHS