

ADLCOM-4SM / ADLCOM-2SM

mPCle 4x RS-232/RS-422/RS-485





TECHNICAL SPECIFICATIONS

FEATURES	FUNCTIONS		
UART	QUAD 16C950 with 128-Byte transmit and receive buffers.		
Baud Rate	Up to 921.6k baud RS-232 and up to 3MBaud in differential modes with advanced-prescaler which allows a wide variety of baud rates. Option: Up to 10Mbps via custom crystal option		
COM Interface	 Character length: 5, 6, 7, 8 bits Parity: Even, Odd, None, Mqark, Space RS-232 Flow Control: RTS/CTS, Xon/Xoff, None RS-422, RS-485 Flow Control: Xon/Xoff, None 		
ESD Protection	+/- 15KV on all signals per IEC61000		
Operating Temperature	-40C to 85C Humidity 5% to 95%, Non-condensiing		
Storage Temperature	-65C to 150C		
Power	3.3VDC; 1.6W typical		
I/O Connector	Hirose DF57-6P-1.2V 6-pin, latching Mating: Hirose DF57H-6S-1.2C		
Operating System	Windows and Linux Compatible		
Mechanical	Size 30mm x 50.95mm Weight = 6.4 grams		

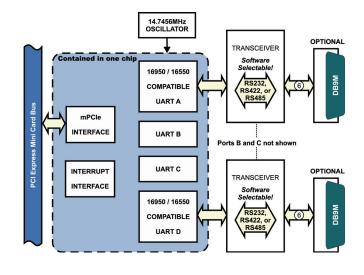
OVERVIEW

- 2-Channel and 4-Channel Software Selectable RS-232, RS-422 or RS-485 ports
- High Performance 16C950 Serial COM Controller with 129-Byte Buffer
- Data Rate up to 921.6 KBaud for RS-232 and up to 3 MBaud for differential-mode RS-422 and RS-485
- Port-by_Port Field Selectable Termination for RS-422 adn RS-485
- ESD Protection up to +/- 15KV
- Operating Temperature = -40C to 85C

DESCRIPTION -

The ADLCOM is available in 4-port and 2-port versions. Each port is capable of communication speeds up to 921.6kbps for RS-232 and 3Mbps for differential-mode RS-422 and RS-485. It features large 128-byte deep transmit and receive FIFOs which help protect against data loss in multitasking operating systems, reduce CPU utilization, and improve data throughput, while reducing or eliminating inter-character or inter-packet pauses.

RS-232, RS-422, or RS-485 is software selected on a per port basis. The selection is stored in non-volatile memory for future use. RS232 ports are 100% compatible with every industry-standard serial COM device, supporting TX, RX, RTS, and CTS. RS-422 mode uses the same transceivers as the RS-485 specification, allowing perfect 4-wire RS-422 and RS-485 compatibility with support for full-duplex RS-485 4-wire.



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CONNECTOR PINOUTS

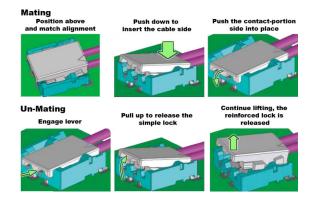
DB-9 Male Pin	232	422	485	
1		Тх-		
2	RX	Tx+		
3	TX	Rx+	Rx/Tx+	
4	RTS ¹	Rx-	Rx/Tx-	
5	GND	GND	GND	
6				
7	RTS	Rx-1		
8	CTS			
9				
Note 1: pin 4 and pin 7 are connected.				

Hirose 6-pin	232	422	485
1	GND	GND	GND
2	Tx	Rx+	Rx/Tx+
3	Rx	Tx+	
4	RTS	Rx-	Rx/Tx-
5	CTS		
6		Tx-	

Signal Definitions		
Signal	Meaning	
	no connect	
RX	Receive Data	
TX	Transmit Data	
GND	Signal Ground	
RTS	Request To Send	
CTS	Clear To Send	
Tx-	Diff. full-duplex TX -	
Tx+	Diff. full-duplex TX+	
Rx+	Diff. full-duplex Rx+	
Rx-	Diff. full-duplex Rx-	
Rx/Tx+	Diff. half-duplex +	
Rx/Tx-	Diff. half-duplex -	
	Pin 4 and pin 7 are connected, so	
Rx- RTS	these signals are duplicates to be ignored.	



MATING CABLES TO I/O HIROSE CONNECTOR



ORDERING INFORMATION

ITEM CODE	PART #	DESCRIPTION
ADLCOM-4SM	299855	4-port Software-Selectable RS-232, RS-422, RS-485 w/ DB9 Cable
ADLCOM-2SM	299855-2	2-port Software-Selectable RS-232, RS-422, RS-485 w/ DB9 Cable
Conformal Coating	807720	Conformal Coating with Acrylic Humiseal 1B31