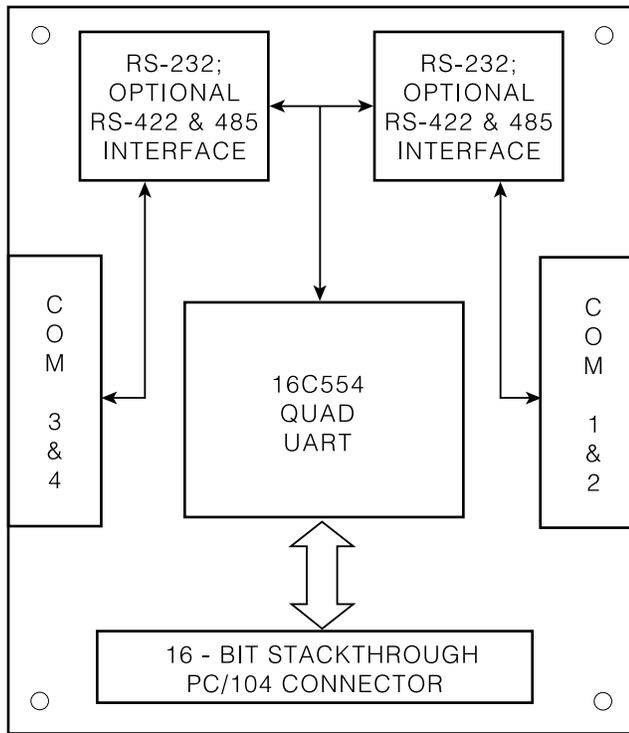




# PCM-COM4A Four Channel



**PCM-COM4A BLOCK DIAGRAM**

9-pin male D type connectors. Two cables are required to support all 4 channels. The standard serial channel AT compatible pinout is shown in the chart.

**CBL-173-1 RS-232 Pin-Out**

Pin	FLOW	Signal
1	IN	Data Carrier Detect (DCD)
2	IN	Receive Data (RxD)
3	OUT	Transmit Data (TxD)
4	OUT	Data Terminal Ready (DTR)
5	-	Signal Ground (GND)
6	IN	Data Set Ready (DSR)
7	OUT	Request To Send (RTS)
8	IN	Clear To Send (CTS)
9	IN	Ring Indicator (RI)

**Interrupts** - Interrupts are generated on error conditions or receive/transmit buffer status for each of the serial channels. Each of the 4 channels can be routed to the PC/104 Bus connector. Alternatively, all four channels can share one interrupt line. The PCM-COM4A supports IRQ channels 2, 3, 4, 5, 6, 7, 10, 11, 12, 14 and 15. The PCM-COM4A also contains a Read Only Interrupt Status Register to allow quick identification of the UART channel(s) needing service.

**PC/104 Interface** - The PCM-COM4A is I/O mapped. Each channel requires 8 port addresses and each is independently decoded within the I/O map. The Interrupt Status Register also requires one I/O port. The addresses are decoded in a PAL and jumper selectable with 8 different I/O maps.

The PCM/104 card is an 16-bit stackthrough card supporting 8-bit data transfers only.

**Custom Configurations** - For OEM applications, the PCM-COM4A can be shipped from the factory with your specific RS-232 and RS-422/485 configuration. Contact the factory for details.

## SPECIFICATIONS

### Electrical

PC/104 Bus: 16-bit, stackthrough  
 Serial: 4 RS-232 asynchronous channels.  
 Optional RS-422/485 with the CK-75176-2 installed per channel  
 Vcc = +5V ±5% @ 80mA

### Mechanical

Dimensions: 3.6" x 3.8" (90mm x 96mm)  
 PC board: 4 layer FR4 epoxy glass with screened component legend

### Connectors

Serial: Two, 20-pin 0.100" grid  
 PC/104: 64-pin, 0.100" (32-pin double row)  
 40-pin, 0.100" (20-pin double row)  
 Jumpers: 0.025" square posts

### Environmental

Operating Temperature: -40° to +85° Celsius  
 Non-condensing relative humidity: 5% to 95%

## ORDERING INFORMATION

- PCM-COM4A-16-2 Four channel, RS-232 serial PC/104 module with 16-bit interface.
- PCM-COM4A-16-4 Four channel, RS-422/485 module with 16-bit interface.
- CBL-173-1 20-pin ribbon to two male 9-pin "D" connector adapter cable
- CK-75176-2 RS-422/485 chip kit for 1 channel