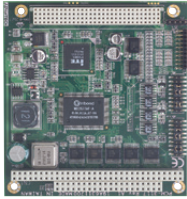


# PC/104 Datacom Modules



## PCM-3117 PCI to ISA Bridge Module



### Specifications

| General                      |                                            |
|------------------------------|--------------------------------------------|
| Bus Interface                | PC/104-Plus                                |
| Controller                   | ITE IT8888F                                |
| Bus                          | PC/104 (ISA) and PC/104+ (PCI)             |
| Mechanical and Environmental |                                            |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                   |
| Weight                       | 0.092 kg (0.203 lb)                        |
| Operating Temperature        | 0 ~ 60° C (32 ~ 140° F)                    |
| Storage Temperature          | -40 ~ 85° C (-40 ~ 18° F)                  |
| Operating Humidity           | 0% ~ 90% relative humidity, non-condensing |
| Power                        |                                            |
| Power Supply Voltage         | +5 V, $\pm 5\%$ tolerance on power supply  |
| Power Consumption            | +5 V @ 70 mA (typical)                     |

### Ordering Information

| P/N            | Description              |
|----------------|--------------------------|
| PCM-3117-00A1E | PCI to ISA bridge module |



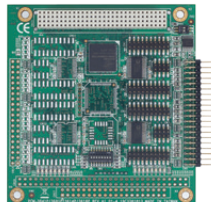
## PCM-3614/3618 4/8-Port RS-422/485 High-speed PC/104 Module

### Specifications

| General                      |                                                                                                                  |
|------------------------------|------------------------------------------------------------------------------------------------------------------|
| Connectors                   | PC/104                                                                                                           |
| Ports                        | PCM-3614: 4 ; PCM-3618: 8                                                                                        |
| Power Consumption            | PCM-3614: +5 V @ 450 mA<br>PCM-3618: +5V @ 650 mA                                                                |
| Communications               |                                                                                                                  |
| Data Bits                    | 5, 6, 7, 8                                                                                                       |
| Data Signals                 | RS-422: TxD+, TxD-, RxD+, RxD-, CTS+, CTS-, RTS+ and RTSRS- (RTS- for PCM-3614)<br>485: DATA+, DATA-, CTS+, CTS- |
| IRQ                          | 3, 4, 5, 6, 7, 9, 10, 11, 12, 15                                                                                 |
| Parity                       | None, Even and Odd                                                                                               |
| Speed                        | 50 bps ~ 921.6 kbps                                                                                              |
| Stop Bits                    | 1, 1.5, 2                                                                                                        |
| Protection                   |                                                                                                                  |
| EFT Protection               | 1,000 V <sub>DC</sub>                                                                                            |
| Mechanical and Environmental |                                                                                                                  |
| Operating Humidity           | 0 ~ 90 % RH                                                                                                      |
| Operating Temperature        | 0 ~ 65° C (32 ~ 149° F) (IEC-68-1-1, 2)                                                                          |
| Storage Temperature          | -25 ~ 80° C (-13 ~ 176° F)                                                                                       |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                                                                         |

### Ordering Information

| P/N         | Description                         |
|-------------|-------------------------------------|
| PCM-3614-AE | 4-port RS-422/485 High-Speed Module |
| PCM-3618-AE | 8-port RS-422/485 High-Speed Module |



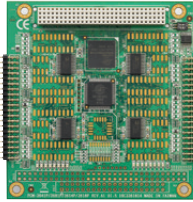
## PCM-3614I/3618I 4/8-Port RS-232/422/485 PCI-104 Modules

### Specifications

| General                      |                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| Connectors                   | PCM-3614I: 1 x 40-pin box header, PCM-3618I: 2 x 40-pin box header                                                                        |
| Ports                        | PCM-3614I: 4, PCM-3618I: 8                                                                                                                |
| Power Consumption            | +5 V @ 450 mA                                                                                                                             |
| Communications               |                                                                                                                                           |
| Data Bits                    | 5, 6, 7, 8                                                                                                                                |
| Data Signals                 | RS-422: TxD+, TxD-, RxD+, RxD-, CTS+, CTS-, RTS+, RTS-<br>RS-485: DATA+, DATA-, GND<br>RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND |
| IRQ                          | 3, 4, 5, 6, 7, 9, 10, 11, 12, 15                                                                                                          |
| Parity                       | None, even and odd                                                                                                                        |
| Speed                        | 50 bps ~ 921.6 kbps                                                                                                                       |
| Stop Bits                    | 1, 1.5, 2                                                                                                                                 |
| Protection                   |                                                                                                                                           |
| EFT Protection               | 1,000 V <sub>DC</sub>                                                                                                                     |
| Mechanical and Environmental |                                                                                                                                           |
| Operating Humidity           | 0 ~ 90 % RH                                                                                                                               |
| Operating Temperature        | 0 ~ 65° C (32 ~ 149° F)                                                                                                                   |
| Storage Temperature          | -25 ~ 80° C (-13 ~ 176° F)                                                                                                                |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                                                                                                  |

### Ordering Information

| P/N          | Description                          |
|--------------|--------------------------------------|
| PCM-3614I-AE | 4-port RS-232/422/485 PCI-104 Module |
| PCM-3618I-AE | 8-port RS-232/422/485 PCI-104 Module |



## PCM-3641I/3642I 4/8-Port RS-232 PCI-104 Modules

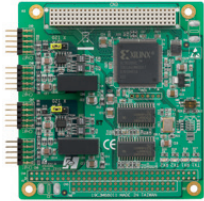
### Specifications

| General                      |                                                                    |
|------------------------------|--------------------------------------------------------------------|
| Connectors                   | PCM-3641I: 1 x 40-pin box header, PCM-3642I: 2 x 40-pin box header |
| Ports                        | PCM-3641I: 4, PCM-3642I: 8                                         |
| Power Consumption            | +5 V @ 250 mA (max.)                                               |
| Communications               |                                                                    |
| Data Bits                    | 5, 6, 7, 8                                                         |
| Data Signals                 | TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND                         |
| IRQ                          | 3, 4, 5, 6, 7, 9, 10, 11, 12, 15                                   |
| Parity                       | None, even and odd                                                 |
| Speed                        | 50 bps ~ 460.3 kbps                                                |
| Stop Bits                    | 1, 1.5, 2                                                          |
| Protection                   |                                                                    |
| EFT Protection               | 1,000 V <sub>DC</sub>                                              |
| Mechanical and Environmental |                                                                    |
| Operating Humidity           | 0 ~ 90 % RH                                                        |
| Operating Temperature        | 0 ~ 65° C (32 ~ 149° F) (IEC-68-1-1, 2)                            |
| Storage Temperature          | -25 ~ 80° C (-13 ~ 176° F)                                         |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                           |

### Ordering Information

| P/N          | Description                  |
|--------------|------------------------------|
| PCM-3641I-AE | 4-port RS-232 PCI-104 Module |
| PCM-3642I-AE | 8-port RS-232 PCI-104 Module |

## PC/104 Datacom Modules



### PCM-3680/1 2-Port CAN-bus PC/104 / PCI-104 Module with Isolation Protection

#### Specifications

| General               |                                         |
|-----------------------|-----------------------------------------|
| Card Interface        | PCM-3680: PC/104<br>PCM-3680I: PCI-104  |
| Certifications        | CE, FCC                                 |
| Connectors            | 2 x DB9-M with cable                    |
| Dimensions            | 96 x 96 mm (3.6" x 3.8")                |
| Ports                 | 2                                       |
| Power Consumption     | 5 V @ 400 mA                            |
| Communications        |                                         |
| CAN Controller        | SJA-1000                                |
| CAN Transceiver       | 82C250                                  |
| Protocol              | CAN2.0 A/B                              |
| Speed                 | Up to 1 Mbps programmable transfer rate |
| CAN Frequency         | 16 MHz                                  |
| Signal Support        | CAN_H, CAN_L                            |
| Protection            |                                         |
| Isolation Protection  | 2,500 V <sub>DC</sub>                   |
| Environment           |                                         |
| Operating Temperature | -40 ~ 85° C (-40 ~ 185° F)              |

#### Ordering Information

| P/N          | Description                          |
|--------------|--------------------------------------|
| PCM-3680-BE  | Dual-port Iso CAN-bus PC/104 Module  |
| PCM-3680I-AE | Dual-port Iso CAN-bus PCI-104 Module |



### PCM-3643 4/8 RS-232 COM Port Module

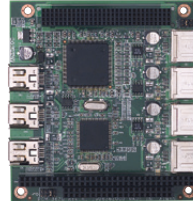


#### Specifications

| General                      |                                                                      |
|------------------------------|----------------------------------------------------------------------|
| Bus Interface                | PC/104 (ISA)                                                         |
| Chipset                      | Standard 16550, 16650, or 16750 compatible chipsets for serial ports |
| Channel                      | 4/8 port RS-232 support                                              |
| Baud Rate                    | 50 ~ 115, 200 bps                                                    |
| Data Bits                    | 5, 6, 7 or 8-bits                                                    |
| Stop Bit                     | 1, 1.5, or 2                                                         |
| Parity                       | Even, odd, or none                                                   |
| Interrupt Level              | IRQ 3, 4, 5, 6, 7, 9, 10, 11, 12 or 15                               |
| I/O Connector                | 40-pin header                                                        |
| Mechanical and Environmental |                                                                      |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                             |
| Weight                       | 0.084 kg (0.185 lb)                                                  |
| Operating Temperature        | 0 ~ 60° C (32 ~ 140° F)                                              |
| Storage Temperature          | -40 ~ 85° C (-10 ~ 185° F)                                           |
| Operating Humidity           | 0% ~ 90% relative humidity, non-condensing                           |
| Power                        |                                                                      |
| Power Supply Voltage         | +5 V, ±5 % tolerance on power supply                                 |
| Power Consumption            | +5 V @ 400 mA (typical)                                              |

#### Ordering Information

| P/N            | Description                |
|----------------|----------------------------|
| PCM-3643-08A1E | 8 x COM RS-232 Port Module |



### PCM-3620 USB 2.0/IEEE 1394a PC/104-Plus Module

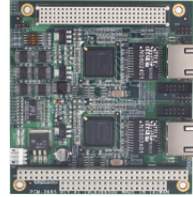


#### Specifications

| General                      |                                                                                                                                                                                         |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Bus Interface                | PC/104-Plus (PCI interface only)                                                                                                                                                        |
| Chipset                      | NEC® uPD720101 and TI TSB43AB23                                                                                                                                                         |
| USB                          | 4 x USB 2.0 Compliant Ports<br>Compliant with OHCI USB Rev 1.0a<br>Compliant with EHCI for USB Rev 1.0<br>High-speed (480 Mbps), full-speed (12 Mbps) and low-speed (1.5 Mbps) transfer |
| IEEE 1394a                   | 3 port compliant with 1394 Open Host Controller Interface Specification (Release 1.1)                                                                                                   |
| Mechanical and Environmental |                                                                                                                                                                                         |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                                                                                                                                                |
| Weight                       | 0.81 kg (0.18 lb)                                                                                                                                                                       |
| Operating Temperature        | 0 ~ 60° C (32 ~ 140° F)                                                                                                                                                                 |
| Operating Humidity           | 0% ~ 90% relative humidity, non-condensing                                                                                                                                              |
| Power                        |                                                                                                                                                                                         |
| Power Supply Voltage         | +5 V, +12 V                                                                                                                                                                             |

#### Ordering Information

| P/N             | Description                                             |
|-----------------|---------------------------------------------------------|
| PCM-3620-00A1E  | 4 x USB 2.0 and 3 IEEE 1394a PC/104-Plus Module         |
| PCM-3620P-00A1E | 4 x USB 2.0 & 3 IEEE 1394a w/pinhead PC/104-Plus module |



### PCM-3665 Dual GbE Module



#### Specifications

| General                      |                                                                        |
|------------------------------|------------------------------------------------------------------------|
| Bus Interface                | PC/104-Plus (PCI interface only)                                       |
| Chipset                      | Intel® 82541PI (PCI 10/100/1000 Mbps)                                  |
| Port                         | Single/Twin Ethernet port                                              |
| Speed                        | 10/100/1000 Mbps                                                       |
| Compatibility                | PCI version 2.2, 33 MHz PCI                                            |
| Mechanical and Environmental |                                                                        |
| Dimensions (L x W)           | 96 x 90 mm (3.8" x 3.5")                                               |
| Weight                       | 0.09 kg (0.198 lb)                                                     |
| Operating Temperature        | 0 ~ 60° C (32 ~ 140° F)                                                |
| Storage Temperature          | -40 ~ 85° C (-10 ~ 185° F)                                             |
| Operating Humidity           | 0% ~ 90% relative humidity, non-condensing                             |
| Power                        |                                                                        |
| Power Consumption            | Dual LAN: +5 V @ 1.2 A (typical)<br>Single LAN: +5 V @ 0.6 A (typical) |
| Power Supply Voltage         | +5 V, ±5 % tolerance on power supply                                   |

#### Ordering Information

| P/N             | Description                           |
|-----------------|---------------------------------------|
| PCM-3665-00A1E  | Dual GbE with RJ-45 connector Module  |
| PCM-3665P-00A1E | Dual GbE w/o RJ-45 connector Module   |
| PCM-3665-01A1E  | Single GbE w/o RJ-45 connector Module |

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