### 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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
    - Operating Voltage: ±5 V @ 250 mA (max.)
    - Protection: EFT Protection: 1,000 V DC
  - **Ordering Information**
    - P/N: PCM-3117-00A1E
    - Description: PCI to ISA bridge module
- **Ordering Information**
  - P/N: PCM-3117-00A1E
  - Description: PCI to ISA bridge 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 (typical)
  - **Communications**
    - Data Bits: 5, 6, 7, 8
    - Data Signals: RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, RI, GND
      - RS-422: TxD+, TxD-, RxD+, RxD-, CTS+, CTS-, RTS+, RTS- (RTS- for PCM-3614)
    - IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12, 15
    - Parity: None, Even and Odd
    - Speed: 50 bps ~ 921.6 kbps
    - Protection: EFT Protection: 1,000 V DC
  - **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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
- **Ordering Information**
  - P/N: PCM-3614I-AE
    - Description: 4-port RS-232/422/485 High-Speed Module
  - P/N: PCM-3618I-AE
    - Description: 8-port RS-232/422/485 High-Speed Module

**PCM-3641I/3642I**

- **4/8-Port RS-232/422/485 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 @ 450 mA (typical)
  - **Communications**
    - Data Bits: 5, 6, 7, 8
    - Data Signals: 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 ~ 460.3 kbps
    - Protection: EFT Protection: 1,000 V DC
  - **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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
- **Ordering Information**
  - P/N: PCM-3641I-AE
    - Description: 4-port RS-232/422/485 High-Speed Module
  - P/N: PCM-3642I-AE
    - Description: 8-port RS-232/422/485 High-Speed Module

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### PC/104 CPU 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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
    - Operating Voltage: ±5 V @ 250 mA (max.)
    - Protection: EFT Protection: 1,000 V DC
  - **Ordering Information**
    - P/N: PCM-3117-00A1E
    - Description: PCI to ISA bridge 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- (RTS- for PCM-3614)
    - RS-485: DATA+, DATA-, GND
    - IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12, 15
    - Parity: None, Even and Odd
    - Speed: 50 bps ~ 921.6 kbps
    - Protection: EFT Protection: 1,000 V DC
  - **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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
- **Ordering Information**
  - P/N: PCM-3614I-AE
    - Description: 4-port RS-232/422/485 High-Speed Module
  - P/N: PCM-3618I-AE
    - Description: 8-port RS-232/422/485 High-Speed 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: RS-232: TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND
    - IRQ: 3, 4, 5, 6, 7, 9, 10, 11, 12, 15
    - Parity: None, even and odd
    - Speed: 50 bps ~ 460.3 kbps
    - Protection: EFT Protection: 1,000 V DC
  - **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 ~ 185°F)
    - Operating Humidity: 0% ~ 90% relative humidity, non-condensing
- **Ordering Information**
  - P/N: PCM-3641I-AE
    - Description: 4-port RS-232 PCI-104 Module
  - P/N: PCM-3642I-AE
    - Description: 8-port RS-232 PCI-104 Module

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All product specifications are subject to change without notice.

Last updated: 15-Jan-2014
**PC/104 Datacom Modules**

### PCM-3680/I

**2-Port CAN-bus PC/104 / PCI-104 Module with Isolation Protection**

**Specifications**

**General**
- Card Interface: PCM-3680: PC/104, PCM-3680I: PCI-104
- Certifications: CE, FCC
- Connectors: 2 x DB9-M with cable
- Dimensions: 90 x 96 mm (3.5" 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 DC

**Environment**
- Operating Temperature: -40 ~ 85° C (-40 ~ 185° F)

**Ordering Information**
- P/N: PCM-3680-BE
  - Description: Dual-port ISO CAN-bus PC/104 Module
- P/N: PCM-3680I-AE
  - Description: Dual-port ISO CAN-bus PCI-104 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
  - Compliant with Hsic USB Rev 1.0a
  - Compliant with EHCI USB Rev 1.0
  - 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: 0.081 kg (0.18 lb)
- Operating Temperature: 0 ~ 60° C (32 ~ 140° F)
- Storage Temperature: -40 ~ 85° C (-10 ~ 185° F)

**Ordering Information**
- P/N: PCM-3620-00A1E
  - Description: 4 x USB 2.0 and 3 IEEE 1394a PC/104-Plus Module
- P/N: PCM-3620P-00A1E
  - Description: 4 x USB 2.0 & 3 IEEE 1394a w/pinhead PC/104-Plus 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/F Connector: 46-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 Consumption: +5 V @ 400 mA (typical)
- Power Supply Voltage: +5 V +5 % tolerance on power supply

**Ordering Information**
- P/N: PCM-3643-08A1E
  - Description: 8 x COM RS-232 Port 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)
  - Single LAN: +5 V @ 0.6 A (typical)
- Power Supply Voltage: +5 V +5 % tolerance on power supply

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