Advantech provides a complete high performance CompactPCI product line and various sized enclosures, from the most up-to-date CPU boards to versatile I/O modules. CompactPCI products are suited for applications such as computer telephony, telecommunications and industrial automation. Adantech is committed to bringing the most advanced technology to our CompactPCI products to provide the most cost-effective high performance platforms for our customers.

**3U CompactPCI Series**

The 3U CompactPCI series is an industrial CompactPCI solution that features front-end access, high shock and vibration tolerance characteristics, automatic cooling, fault resilience, and hot swappable capabilities. These features make 3U CompactPCI series the most reliable PC-based computing platform for mission-critical applications. Advantech leverages 3U CompactPCI as the industrial high-end computing platform, providing Pentium 4 CPU modules, 8-slot chassis, high-speed I/O and serial communication modules, to become a total industrial CompactPCI solution provider. Target applications include: military defense, transportation, traffic control, test and measurement (T&M), and critical data acquisition & control.

**6U CompactPCI Series**

**6U CompactPCI Enclosures**

Advantech provides CompactPCI enclosures from 1U to 12U, most of which are with front/rear panel I/O, CT bus and redundant power supply.

**6U CompactPCI Boards**

High-performance 6U CompactPCI boards feature Mobile Intel® Pentium III/4 processor-M, Intel® Pentium III, Intel Pentium MMX, and Intel Celeron® CPU boards with VGA/LAN/SCSI for users to meet the rapidly expanding requirements of Computer Telephony and Telecom applications.

**6U CompactPCI Peripherals**

6U CompactPCI Peripherals Advantech provides peripherals for CompactPCI products, including “PMC Modules”, “Alarm Modules”, “Power Supplies”, and “Fan Modules”.

**6U Blade Servers**

Advantech’s CompactPCI computing platforms with master/slave multi-computer architectures offer a brilliant solution to application developers and in-house integrators. CompactPCI computing platforms pack the largest number of processors in the least amount of space with hot-swappable components, highest serviceability, and availability.
**MIC-3001/8**

- **3U 8-slot CompactPCI® Enclosure**
  - Eight 3U CompactPCI® slots
  - Easy installation: rackmount or panelmount
  - Hot-swap compliant backplane
  - Hot-swap fan tray module
  - Optional fault detection and alarm notification
  - Logic Ground and Chassis Ground can be isolated or common

**MIC-3002AD/6**

- **3U 6-slot CompactPCI® Enclosure**
  - 6-slot 3U CompactPCI backplane
  - Compact size, 4U high enclosure for 3U dPCI modules
  - Side handle design and optional 6.4" LCD display for portable applications
  - Stand feet on the bottom side for desktop applications
  - Hot-swap compliant backplane
  - Logic ground and chassis ground can be isolated or common

**MIC-3351**

- **3U CompactPCI® Pentium® MMX Controller with VGA/ LAN**
  - Onboard Pentium® MMX 266 CPU
  - Two SODIMM sockets support up to 256 MB SDRAM
  - Onboard high-performance VGA display
  - Onboard 10/100Base-TX fast Ethernet with RJ-45 connector
  - Supports 2 Ultra DMA/33 high-speed IDE devices
  - Accepts CompactFlash memory card
  - One PCI-to-PCI bridge drives up to 7 bus master peripherals
  - Compact 2-slot width
  - Supports onboard HDD, optional 1-slot wide mounting bracket for an onboard FDD

**MIC-3318**

- **3U CompactPCI® Pentium® 4-M Controller**
  - Built-in Intel® Pentium® 4-M CPU processor up to 1.7 GHz
  - Supports up to 512MB DDR-266 memory onboard
  - Onboard high-performance VGA display
  - Dual Gigabit Ethernet with RJ-45 connector onboard
  - Supports 2 Ultra ATA 33/66/100 high-speed IDE devices
  - Onboard CompactFlash disk socket
  - One PCI-to-PCI bridge drives up to 7 bus master peripherals
  - Advantech Hot-swap Manager to support Advantech I/O and Communication Hot-swap function
  - Rear I/O signal support for easy wiring
  - Supports onboard 2.5" HDD

**MIC-3753**

- **72-ch Digital I/O Module**
  - 96 TTL digital I/O lines
  - Emulates mode 0 of 8255 PPI
  - Buffered circuits for higher driving capacity than 8255
  - Multiple-source interrupt handling
  - Interrupt output pin for simultaneously triggering external devices with the interrupt
  - Output status read-back
  - “Pattern match” and “Change of status” interrupt functions for critical I/O monitoring
  - Keeps I/O setting and digital output values when hot system reset
  - Supports dry contact and wet contact
  - High-density 100-pin SCSI connector

**MIC-3756**

- **64-ch Isolated Digital I/O Module**
  - 32 isolated digital output channels
  - 32 isolated digital input channels
  - Either +/- voltage input for DI by group
  - High-voltage isolation on I/O channels (2,500 V<sub>DC</sub>)
  - Wide input range (10 – 50 V<sub>DC</sub>)
  - Wide output range (5 – 40 V<sub>DC</sub>)
  - High-sink current on isolated output channels
    - 200 mA max/channel
  - High-over-voltage protection (70 V<sub>DC</sub>) for input channels
  - Board ID
  - Output status read-back for output channels
  - Keeps digital output values after hot system reset
  - Channel-Freeze function for output channels
  - Interrupt handling capability
  - Provides convenient wiring terminal module with LED indicators for DIN-rail mounting
  - High-density 100-pin SCSI connector

**MIC-3761**

- **8-ch Relay Actuator and 8-ch Isolated Digital Input Module**
  - 8 relay output channels and 8 isolated digital input channels
  - LED indicators to show activated relays
  - 4 Form C and 4 Form A type relay output channels
  - Output status read-back
  - Retained relay output values when hot system reset
  - High-voltage isolation on input channels (3,750 V<sub>DC</sub>)
  - High ESD protection (2,000 V<sub>DC</sub>)
  - High-over-voltage protection (70 V<sub>DC</sub>)
  - Wide input range (10 – 50 V<sub>DC</sub>)
  - Interrupt handling capability
  - Board ID

**MIC-3716**

- **250 KS/s, 16-bit, 16-ch High-resolution Multifunction Module**
  - 16-bit high resolution
  - 250 KS/s sampling rate
  - Auto calibration function
  - PCI-bus mastering for data transfer
  - 16 analog input channels with 1K FIFO
  - 16 E. O. or 8 DIF. AI, or a combination
  - Unipolar/Bipolar input range
  - 2 analog output channels
  - 16 digital input channels
  - 16 digital output channels
  - One 10 MHz 16-bit resolution counter
  - Board ID
**MIC-3714**

30 MS/s Simultaneous 4-ch Analog Input Module

- 12-bit A/D converter up to 30 MS/s
- 4 single-ended analog input channels
- Programmable gain for each input channel
- 32 K samples on board FIFO memory per channel
- 4 A/D converters simultaneously sampling
- Multiple A/D triggering modes
- Programmable pacer/counter

**MIC-3780**

8-ch Counter/Timer Module

- 8 independent 16-bit counters
- 8 programmable clock source
- 8 digital TTL outputs and 8 digital TTL inputs
- Up to 20 MHz input frequency
- Multiple counter clock source selectable
- Counter output programmable
- Counter gate function
- Flexible interrupt source select
- Board ID

**MIC-3612**

4-port RS-232/422/485 Communication Module

- PCI Specification 2.1 compliant
- Speeds up to 921.6 kbps
- 4-port RS-232/422/485
- 16C954 UARTs with 128-byte standard
- Standard Industrial CompactPCI® 3U Board size
- I/O address automatically assigned by PCI Plug-and-Play
- OS supported: Windows 98, Windows NT, Windows 2000, Windows XP
- Interrupt status register for increased performance
- Automatic RS-485 data flow control
- Tx/Rx LED indicator

**MIC-3620**

8-port RS-232 Communication Module

- PCI Specification 2.1 compliant
- Speeds up to 921.6 kbps
- 16C954 UARTs with 128-byte standard
- 8-port RS-232
- Standard Industrial CompactPCI® 3U Board size
- I/O address automatically assigned by PCI Plug-and-Play
- OS support: Windows 98, Windows NT, Windows 2000 and Windows XP
- Interrupt status register for increased performance
- Optional surge protection
- Space reserved for termination resistors

**MIC-3037**

1U CompactPCI® Enclosure with 2-slot 6U Backplane

- The most compact enclosure
- 2-slot 6U CompactPCI backplane
- 200 W ATX power supply

**MIC-3039**

1U CompactPCI® Enclosure with 2-slot 6U Backplane (Rear I/O)

- 2-slot 6U CompactPCI backplane
- 200 W ATX power supply
- Supports rear I/O (IEEE 1101.11 compatible)

**MIC-3036**

2U CompactPCI® Enclosure with 4-slot 6U Backplane (CT Bus and Rear I/O)

- 4-slot 6U CompactPCI backplane
- Supports rear I/O
- 200 W ATX power supply
- H.110 CT bus compliant (PICMG® 2.5)

**MIC-3056**

2U CompactPCI® Enclosure with 4-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)

- 4-slot 6U CompactPCI backplane
- Supports rear I/O
- 300 W ATX 1+1 redundant power supply
- H.110 CT bus compliant (PICMG® 2.5)
- Hot-swappable fans provide outstanding ventilation
- Optional chassis management module

**MIC-3038**

4U CompactPCI® Enclosure with 8-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)

- 8-slot 6U CompactPCI backplane
- Supports rear I/O
- 300 W ATX 1+1 redundant power supply
- Hot-swappable fans
- H.110 CT bus compliant (PICMG® 2.5)
- Optional chassis management module
- Packet Switching Backplane (P58) Specification compliance (PICMG 2.16)
### MIC-3041
4U CompactPCI® Enclosure with 6-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)
- 6-slot 6U CompactPCI backplane with H.110 CT bus
- Supports two hot-swappable SCSI HDD bays
- Supports rear I/O
- Built-in IDE slim CD-ROM and floppy
- 300 W ATX 1+1 redundant power supply
- Supports hot-swappable fan modules
- Optional intelligent chassis management module

### MIC-3081
10U CompactPCI® Enclosure with 8-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)
- 10U-high enclosure, 19-inch enclosure
- 8-slot 6U CompactPCI backplane
- Supports rear I/O
- H.110 CT bus compliant (PICMG® 2.5)
- 560 W ATX 2+1 redundant power supply
- Hot-swappable fan modules and blowers
- Built-in advance intelligent alarm module/chassis management module
- Device bay accommodates up to three devices

### MIC-3082A
12U CompactPCI® Enclosure with 21-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)
- 12U-high enclosure for 6U CompactPCI boards; 5U-high 20-slot rack mount chassis 0.5 U per server - ultra high density
- 21-slots 6U CompactPCI backplane 18 node slots/2 fabric slots
- Multiple backplane configuration available for various applications (1/2/4 segments) Modularized, front-accessible, and hot-swappable fan, power supply, and server board.
- All front-accessible form factors of server blades, power modules, and a fan module
- Seven hot-swappable server blades
- Hot-swappable fan modules
- Supports packet switch backplane specification (PICMG 2.16)
- Supports computer telephony specification (PICMG 2.5)
- 1120 W + 1120 W 4+4 hot-swappable load-sharing AC/DC power supplies
- Dual-power domain backplane isolates catastrophic power failures
- Six hot-swappable fans and blowers/chassis management module
- Build in intelligent chassis management module, optional backplane combination (MIC-3924B-A)
- Design for NEBS level 3 and ETSI installations, independent alarm and management module
- One serial port for emergency dialing out through modem

### 6U CompactPCI Boards

#### MIC-3369
6U CompactPCI® Intel® Pentium® III Processor Board with VGA/Dual Gigabit LAN/PMC
- Supports Intel® Pentium® III processor 1.6 GHz
- Supports Dual Gigabit LANs
- Up to 2 GB (DDR-200) memory on board with ECC
- Intel® E7501 chipset
- One 64-bit/66 MHz PMC expansion slot
- PICMG 2.16 compliant with Packet Switching Backplane Specification
- PICMG 2.9 compliant with System Management Specification
- Hot-Swap Specification compliant (PICMG 2.1)
- Onboard 2.5” HDD connector and CompactFlash socket
- Master/Slave mode selectable

#### MIC-3358
6U CompactPCI® Intel® Pentium® 4 Processor-M Board with VGA/Dual Gigabit LAN/PMC
- Supports Intel® Pentium® 4 Processor-M up to 2.2 GHz
- Dual Gigabit Ethernet on board
- Up to 2 GB (DDR-266) memory on board with ECC
- Intel® 845E chipset
- One 32-bit/33 MHz PMC expansion slot
- PICMG 2.16 compliant with Packet Switching Backplane Specification
- PICMG 2.9 compliant with System Management Specification
- Hot-Swap Specification compliant (PICMG 2.1)
- Onboard 2.5” HDD connector and CompactFlash socket
- System/Slave mode selectable

#### MIC-3389
6U CompactPCI® Dual Socket 370 Pentium® III Processor Board with VGA/Dual LAN
- Supports single/dual Intel® Pentium® III processors, up to 1 GHz
- ServerWorks® ServerSet III LE chipset
- Up to 2 GB PC-133 registered SDRAM with ECC
- 64-bit/66 MHz CompactPCI bus
- Onboard VGA with 8 MB SGRAM
- Dual 10/100 Mbps LAN ports

#### MIC-3368
6U CompactPCI® Low Power Pentium® III Processor Board with VGA/Dual LAN/PMC/Embedded HDD
- Low power Intel® Pentium® III 700 MHz (BOA2) processor built in Intel® 440GX chipset
- PICMG 2.16 compliant with Packet Switching Backplane Specification
- Full Hot-Swap Specification compliance (PICMG 2.1, R2.0)
- Up to 1 GB ECC SO-DIMM SDRAM memory
- One 32-bit PMC expansion site
- Dual Fast 10/100 Mbps Ethernet on board with rear I/O
- Embedded 2.5” HDD or optional CompactFlash
**MIC-3377**
6U CompactPCI® Socket 370 Pentium® III/Celeron® Processor Board with VGA/Dual LAN
- Socket 370 Intel® Pentium® III/Celeron® processor
- Intel 440BX chipset
- Up to 512 MB SO-DIMM SDRAM memory
- Dual 10/100 Mbps LAN ports
- Fanless heat sink

**MIC-3366**
6U CompactPCI® Low Power Pentium® III Processor Peripheral Board with VGA/Dual LAN/PMC
- Low power Intel® Pentium® III processor 700 MHz (BGA2)
- Up to 1 GB ECC SO-DIMM SDRAM memory
- One 32-bit PMC expansion site
- Optional onboard 2.5" HDD or CompactFlash
- Hot-swappable

**MIC-8101**
6U CompactPCI® 10/100 Ethernet Switch
- Full wire speed on all ports
- VLAN IEEE 802.1 Q - ID tagging, 802.1p priority
- Link aggregation
- Packet filtering and port security
- Multicast and broadcast storm control
- GVRP/GMRP VLAN and multicast registration
- DHCP/BootP packet forwarding
- RIPv1, RIPv2 routing, DVMRP, PIM (dense mode)
- Low port latency
- Hot-swappability with LED indication for RSS

**MIC-3645**
6U CompactPCI® Ultra3 SCSI Interface Board
- Dual SCSI channels
- 64-bit/32-bit, 33 MHz PCI bus
- Supports up to 16 LVD/SE devices on a wide SCSI bus
- LED indicators for easy monitoring of power and SCSI status

**RIO-3301/02/03/06/08/09**
6U CompactPCI® Rear Transition Boards
- External rear-panel interface connectors for CPU boards
- Onboard CompactFlash socket
- Ultra 160 SCSI interface
- Onboard bracket to carry a 2.5" HDD

**MIC-3961**
6U CompactPCI® PCI Carrier Board
- 6U CompactPCI form factor
- 64-bit PCI interface
- 3.3 V/5 V selectable
- 33/66 MHz PCI clock selectable
- Hold-down bracket to secure PCI board

**MIC-3960**
6U CompactPCI® Media Carrier Board
- Expands Advantech chassis MIC-3038/MIC-3056 storage capacity
- Accommodates a slim CD-ROM or a slim FDD
- Accommodates a CompactFlash card and a 2.5" IDE HDD

**MIC-3951**
6U CompactPCI® Dual PMC Carrier Board (64-bit/66 MHz)
- 6U CompactPCI form factor
- 64-bit, 66/33 MHz CompactPCI interface
- Supports dual PMC module
- Onboard PCI-to-PCI bridge
CompactPCI Peripherals

**MIC-3661D**
 Dual 10/100Base-TX Fast Ethernet PMC Module
- 32-bit/33 MHz PCI bus
- IEEE P1386.1 PMC specifications compliant
- Dual Ethernet ports
- PCI-to-PCI bridge on board

**MIC-3662D**
 Dual Gigabit Ethernet PMC Module
- 32-bit/33 MHz, 64-bit/66 MHz PCI bus
- IEEE P1386.1 PMC specifications compliant
- Dual Gigabit Ethernet ports
- PCI-to-PCI bridge onboard

**MIC-3924**
 CompactPCI Intelligent Chassis Management Module
- Monitors system fans, temperature, voltage, power supply, CPU fan, CPU temperature, Vcore, watchdog timer, etc.
- Stand-alone system monitoring: no driver needed, OS independent
- Remote alarm notification through SNMP/HTTP, e-mail or pager
- Easy status monitoring through Ethernet using a browser
- Highly reliable: functions even when system or power fails
- Hot-swappable, easy for maintenance

**MIC-3921**
 Intelligent Monitoring and Alarm Module
- Monitoring: +3.3 V, +5 V, +12 V, -12 V
- System bus voltages
- Four fan sensor inputs for fan speed monitoring
- Three temperature sensor inputs
- One "power good" signal input for power supply monitoring
- Three channels of relay outputs for external alarm connection
- One serial port can be set as RS-232 or RS-485 port, supporting modem output
- Three configurable alarm levels: critical, major, minor
- Audible alarm with three sound effects
- Onboard battery backup
- Built-in watchdog timer for self-detection

**SF-420**
 4U Rackmount Packet-Switched Blade Server
- 4U, rugged 19-inch rackmount enclosure
- Seven hot-swappable Intel® Pentium® III 700 MHz server blades
- One built-in layer 3 switch blade
- Hot-swappable fans
- PICMG 2.16/2.9 compliant
- Independent system node architecture
- 300 W ATX 1+1 redundant power supply
- Independent Chassis Management Module (optional)
- Designed for NEBS