

CH-EXP Series



- Adds 4 or 12 I/O slots to your present system
- True expansion of the 16-bit IBM PC/AT bus
- Quick-disconnect cable for fast and easy set-up in modular or portable systems
- Full DMA and interrupt mode support
- Completely software transparent
- 48-hour factory burn-in and test

Ordering Information

CH-EXP12 Rackmount
Expansion Chassis

CH-EXP4 Tabletop Expansion
Chassis

APPLICATIONS

- Cost-effective expansion of industrial computers
- Portable data acquisition systems (CH-EXP4)
- Connect multiple systems to a single host PC
- Expandable test systems
- Plug-in board testing
- Repair depots

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Expansion Chassis

for Rackmount, Desktop and Portable Computers

The CH-EXP Series chassis allow you to increase the number of expansion slots in your desktop or rackmount IBM PC/XT/AT or compatible computer. No modification to your existing boards or software is necessary. Simply install the provided interface board in your PC and connect the chassis using the supplied cable. The CH-EXP12 is a heavy-duty rackmount chassis engineered for the tough reliability requirements of the industrial environment. The CH-EXP4 is a rugged yet versatile tabletop enclosure suited for laboratory or portable applications.

During operation, a CH-EXP Series chassis can be turned off without interrupting your software program.* This allows you to remove or make changes to your I/O boards without cycling PC power and waiting for your computer to re-boot! This can be a tremendous time-saving tool in such applications as board testing, system maintenance or troubleshooting.

* Provided your program does not access I/O boards in the expansion chassis while the chassis is turned off.

Specifications

	CH-EXP12	CH-EXP4
CONSTRUCTION:	16 gauge (.059) steel; front panel is 0.125 aluminum alloy	16 gauge (.059) steel
PASSIVE BACKPLANE:	14 full AT slots—adds 12 slots to the system (one slot is used in PC, one in chassis)	6 full AT slots—adds 4 slots to the system (one slot is used in PC, one in chassis)
COOLING:	Two 80 CFM fans in card cage area and one 40 CFM fan in power supply module	42 CFM fan in card cage area
FILTRATION:	Dual, easy-access filters; washable	
DISK STORAGE:	Provisions for three 5.25 in floppy drives and one 3.5 in hard drive, all mounted on shock isolators	Provisions for one 3.5 in floppy drive and one 3.5 in hard drive
INDICATORS:	Power Good (+5V and +12V) and HD Activity on the front panel; Power Good on the backplane	Power Good and HD Activity on the front panel
CONTROLS:	Power On, System Reset, and Key Lock on the front panel; AC line voltage selector on the rear panel	System Reset on the front panel; Power On/Off switch on the rear panel
KEYBOARD:	5-pin DIN connectors on both front and rear panels	5-pin DIN connector on rear panel

POWER SUPPLY

OUTPUT:	300 Watts continuous +5VDC @ 30A -5VDC @ 0.5A +12VDC @ 12A -12VDC @ 0.5A	65 Watts continuous +5VDC @ 10A 5VDC @ 1.0A +12VDC @ 4.0A -12VDC @ 1.0A
POWER REQUIREMENT:	90 to 135/180 to 265VAC, switch-selectable; 47-63Hz	90 to 260VAC, auto-sensing; 47-63Hz
HOLD-UP TIME:	20ms	16ms
SHORT CIRCUIT/OV:	Short circuit and overvoltage protection on +5VDC and +12VDC lines	AC line filter, internal fuse; overvoltage, short circuit and surge protected
SAFETY APPROVALS:	UL1950 Dev 3, CSA 22.2, TÜV EN60950	UL, CSA, VDE
EMI/RFI:	Meets FCC Class "B"	Meets FCC/VDE Class "B"

EXPANSION INTERFACE

BUS:	16-bit AT (286/386/486 and EISA-bus computers)	16-bit AT (286/386/486 and EISA-bus computers)
CABLE:	100-pin quick-disconnect, 3 feet long	100-pin quick-disconnect, 3 feet long