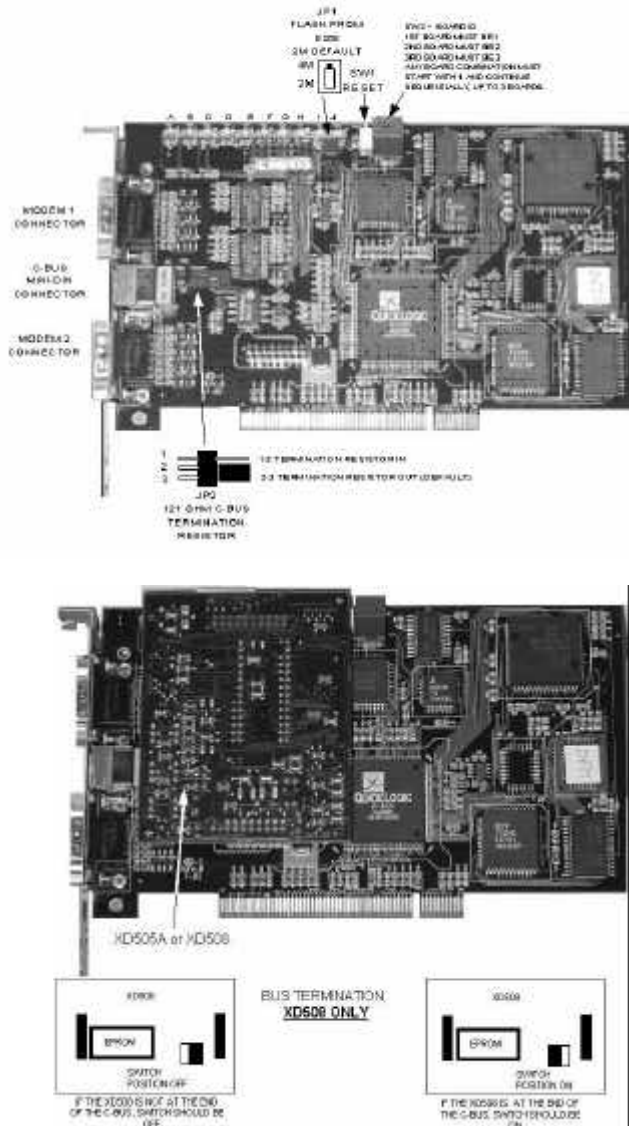


XPC500 PCI PC BOARD

SPECIFICATION DATA

XPC 500 PCI INTERFACE BOARD

1. Check Switch and Jumper positions on XPC 500 PCI Board



GENERAL

The XPC500 PCI circuit board is used in Honeywell Excel Building Supervisor (XBS) PCs and Enterprise Buildings Integrator (EBI) servers to support EXCEL 5000[®] System C-bus controllers. Controllers may be connected directly and/or via modem dial-up.

As a consequence of the PC industry phasing out the availability of ISA slots on PCs, this 32 bit short size PCI bus board has been designed for use on PCs that can not accommodate the XPC500 ISA board type.

FEATURES

- PCI "Plug and Play" eliminates the need to set interrupts and memory addresses
- One RS 485 interface for directly connected C-Bus
 - C-Bus communication speed of 4800 or 9600 bps with the XD505A sub-module
 - C-Bus communication speed of 4800, 9600, 19.2K, 38.4K, 76.8, or 921.6K bps with the XD508 sub-module
- Two RS 232 ports available for use with analog modems to communicate with remote controllers or remote C-Busses:
 - The first port may be used for dial-out to remote site for command and control purposes
 - Both RS232 ports may be used to receive alarms from the remote site.
 - The allowed baudrate for XBS or EBI remote communication is 300 to 9600 Baud.
- Hardware watchdog circuitry in combination with the XPC500 firmware guarantees reliable board operation
- Reset button allows return to factory default settings
- Board ID selected by a Switch on XPC500 PCI board
- On-board real-time clock provides high accuracy for date and time information maintained or generated during events or trend data processing by the XPC 500 firmware
- 10 LEDs giving a visual feedback about the following communication lines:
 - Watchdog/regular operation
 - Alarm
 - Modem 1 Transmit & Receive
 - Modem 2 Transmit & Receive
 - Local C-Bus transmit & receive,
 - Interrupt to 80C188 microprocessor
 - Interrupt to PC

APPLICATION

Data communication with locally connected C-Busses at 9600 bps up to 76800 bps.

Remote data communication with modem connected standalone controllers or modem connected remote C-Busses at up to 9600 bps.

Up to three XPC500 boards are permitted per PC. However, XPC500 ISA and XPC500 PCI boards may not be mixed in a given PC.

Only the first XPC500 PCI may be used for dial-in / dial-out.

For a complete list of application features and for memory requirements of the PC that runs the XBS or EBI supervisor Software, please refer to the XBS System Engineering Manual (form 74-5018) or the EBI Installation Guide (form 8D12-001-620)

TECHNICAL DATA

Dimensions (H x W x D)

32 bit short size PCI card
4.2 x 7.125 x .7 inches (107 x 181 x 19 mm)

PCI interface

32 bit data interface via High Performance PCI Controller
Board ID selected by a Switch on XPC500 PCI board

Power Requirements

Supply Voltage	5 Vdc \pm 5%
Power Consumption	Approx. 3.5 VA without sub-modules XD505A or XD508

Ambient Operating Limits

32°F to 120°F (0°C to 49°C)
10 to 93% R.H. (non-condensing)

Ambient Storage Limits

-4°F to 140°F (-20°C to 60°C)
10 to 93% R.H. (non-condensing)

Memory

128 Kbyte on-board static RAM memory in CMOS technology
256 Kbyte on-board Flash PROM memory, factory pre-loaded with the firmware.

Flash PROM socket can be upgraded with a 512 Kbyte Flash PROM

1 KBit on-board serial EEPROM

4 Kbyte on-board dual port RAM as shared memory between 80C188 processor and High Performance PCI Controller

Shipping Weight

1 lb (.5 kg)

INSTALLATION & MOUNTING

Please refer to form GE1R-1023 that is packed with the XPC500 PCI product. Also as depending on system, please refer to:

- XBS Operator's Manual (form 74-5022 and 74-2732)
- XBS Check-out and Test Manual (form 74-3422)
- XPC 500 Installation & Mounting Instructions
- EBI Installation Guide (form 8D12-001-620).

Note that Modems and Modem cables must be FCC and CE listed

APPROVALS

UL864
FCC Class A Compliant
European Class B Compliant

ORDERING SPECIFICATION:

OS - numbers:

14507742-001	Includes the XPC500 PCI board and firmware, as well as the associated XBS and EBI driver software
XW 570	Connection cable to connect local C-Bus to XPC 500
XD 505A	Sub-module for 9600 bps C-Bus communication
XD 508	Sub-module for 76800 bps C-Bus communication

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