Solutions for Demanding Applications

VARTECH
SYSTEMS INC.

PowerCube – Small Form Factor Industrial Computer

Model VTPC

User's Guide

Read these instructions completely before attempting to operate your new PowerCube

Revision History

Date	Rev No	Summary	Page
10/29/07	00	First Issue	
12/03/07	01	Added Momentary Switch diagram	10
3/17/09	02	Revised to current configuration	

Standard Product Specifications

Processor	2.16 GHz Intel T3400 Core 2 Duo Processor
System Memory	DDRII 533/677 SDRAM 2GB x 1 (Expandable to 4GB)
BIOS	AMI BIOS
Hard Drive	320 GB SATA
Operating System	Microsoft XP Professional (SP3)
Graphics	Integrated Intel 945GME Graphics
LAN	Broadcom BCM5787M PCIe GbE Controllers
Power Input	12 VDC
Power Consumption	40W
Expansion Slots	Mini PCI x 1 PCI x 1 (Optional)
I/O Ports	PS/2 Keyboard Connector x 1 PS/2 Mouse Connector x 1 DVI-D Port x 1 RS-232 Port x 4 (Optional 422/485 x1) USB 2.0 Port x 6 RJ45 LAN Port x 2 VGA Port x 1 Audio Jacks: Line Out x 1/ Line In x 1
DVD Drive (E-IDE / ATAPI)	DVD-R, DVD+R, DVD-RW, DVD+RW, DVD-R DL, DVD+R9, CD-R, CD-RW
Temperature	Operational: 32°F to 140°F 0°C to 60°C Storage: -40°F to 149°F -40°C to 65°C
Humidity	Operational: 80 to 90% RH NC Storage: 5 to 95% RH NC

Package Contents:

1 - PowerCube Chassis
1 - AC Power Cord
1 - AC Adapter
1 - User Manual

BEFORE MAKING ANY CONNECTIONS OR APPLYING POWER, FIRST READ THROUGH THE ENTIRE MANUAL

Installation of Your PowerCube

Panel or Bulkhead Mounting

The PowerCube is designed for continuous use in any area where the ambient air temperature and humidity at the unit is within the recommended operating specification.

The PowerCube is designed with a ventilated enclosure; it is not sealed from direct exposure to moisture or excessive contaminants. The connectors are standard computer connectors and care should be taken to avoid foreign materials and moisture from entering them. No maintenance is required.

The PowerCube can be mounted to a flat surface and in any orientation. Multiple mounting options are available including an anti-shock and anti-vibration mobile mounting system.

Connections to the PowerCube

Power Connection (Power In)

The PowerCube includes an AC power module and line cord which is 6ft long. The power receptacle is located on the left rear as you look at the computer connection side of the chassis. The AC power module supplied with the PowerCube is rated at 90W AC-DC. The PowerCube can support up to 180W to connect additional peripherals. Care must be taken when connecting additional peripherals which require power over 90W.

DVI Computer Video Connection (DVI-D)

The DVI-D receptacle is located on the left rear panel as you look at the computer connection side of the chassis. The PowerCube can provide video output for any standard screen resolution from 640x480 up to 2048x1536

Rear Panel Connections

Serial Connections (COM 1, 2, 3, 4)

The PowerCube is supplied with four serial connectors configured for RS-232. The connectors are 9 pin female connectors and can be set up for any baud rate from 300 to 19.2 baud. The connectors are located on the rear panel.

Ethernet Connections (LAN)

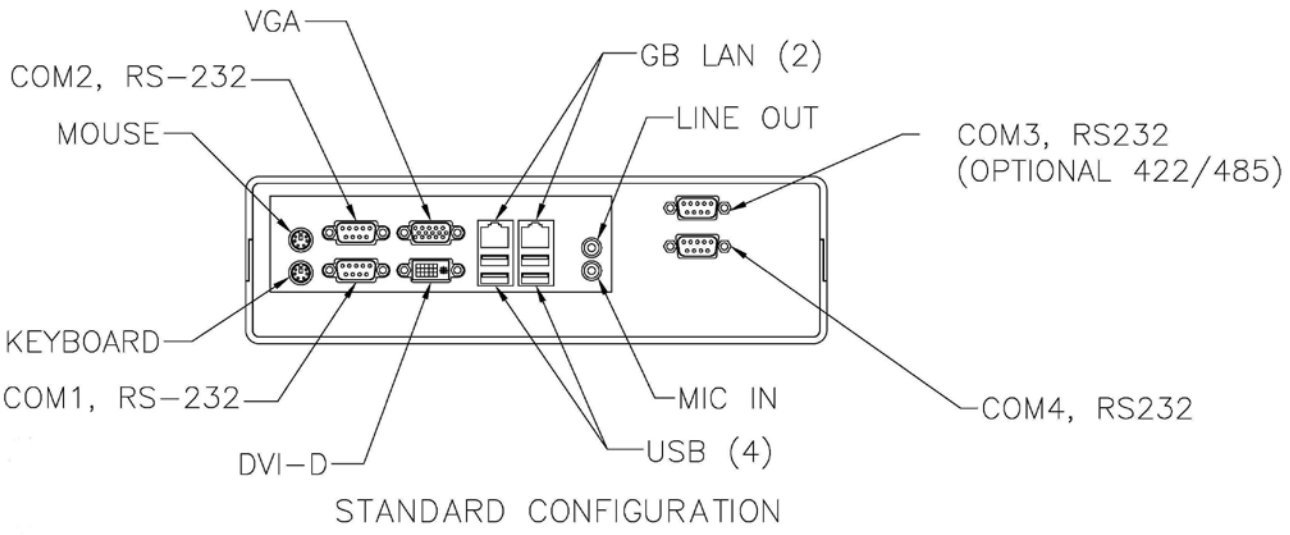
The PowerCube is supplied with two integrated Ethernet connections. The interface will support 10/100/1000 BaseT connection to a local area network (LAN). The PowerCube is supplied with (2) RJ-45 female connectors located on the rear panel.

USB Connections (USB 1-2)

The PowerCube is supplied with six USB 2.0 connectors. Two connectors are located on the front panel and four connectors are located on the rear panel.

Operating System

The PowerCube is supplied with Windows XP Professional Service Pack 3.



-**Rear Connector Panel-**

Turning the system On and Off

Before connecting the PowerCube to power, connect all peripheral devices. These connections should only be connected or disconnected when the PowerCube is off with the exception of any USB peripheral.

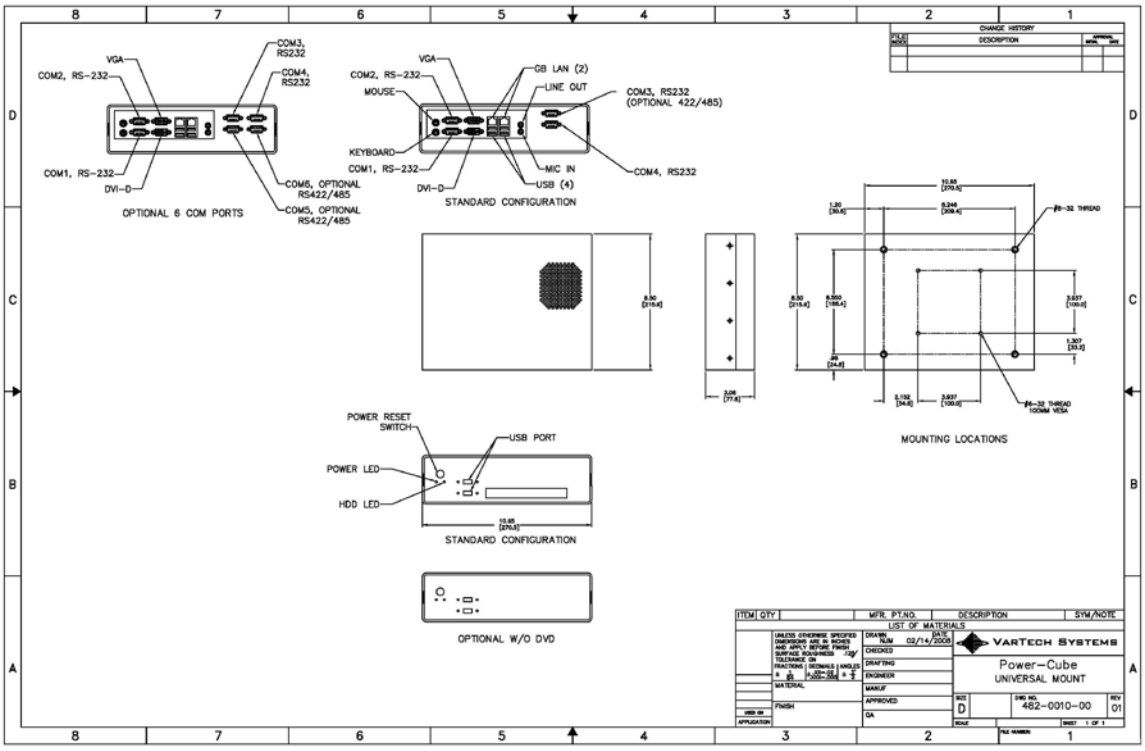
The PowerCube can be turned on using the On-Off pushbutton switch located on the front panel. Once the PowerCube is turned on, and Windows has started, Windows must be properly shut down before the power is turned off to prevent the chance of corrupting files in the operating system.

Maintenance and Storage

The PowerCube is designed to provide optimum service and performance with minimal maintenance including the occasional external cleaning. For cleaning the PowerCube follow the suggested guidelines.

General – NEVER use abrasive cleaners or solvent-based cleaners!! Use a clean soft cloth. The PowerCube should only be opened and serviced by a qualified technician. Keep the area around the PowerCube clear and free of excessive dirt or other contaminants. Do not use water or any liquids on the PowerCube.

Storage – If the PowerCube is not going to be used for a prolonged period, it is recommended that the PowerCube be removed and stored in a normal indoor environment protected from any accidental damage.



PowerCube Outline Drawing: Detail -A-

For Additional Assistance
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