VTPC2400PS

VarTech's 24″ panel mount monitor and computer, non-incendive and certified for use in hazardous area environments deemed Class 1 Division 2.

DiamondVue hazardous area monitors and computers are NEMA 4X (IP66) protected from dirt and moisture at the front bezel, and incapable of causing ignition of flammable gas, vapors, or dust under normal working conditions in hazardous area environments.

Available in stainless steel

Certifications:

This VarTech product has been tested, examined, by a third party independent testing laboratory and found to comply with the applicable requirements of UL60950-1/CSA C22.2 No. 6095-1, Second Edition, Rev. March 27, 2007: Information Technology Equipment – Safety – Part 1: General Requirements ANSI/ISA 12.12.01-2013, 3 June 2013: Non-incendive Electrical Equipment for Use in Class I and II, Division 2 and Class III, Division 1 and 2 Hazardous (Classified) Locations CSA C22.2 No. 213-M1987, First Edition, Reaffirmed 1999: Non-incendive Electrical Equipment for Use in Class I, Division 2 Hazardous Locations.

Standard Features:

- Industrial-grade LED back-lit LCD
- Power input: 12/24 VDC or 110/220 VAC internal power supply
- Construction/environmental design: bezel - NEMA 4X (IP66) 316 stainless steel, 1-piece gasket design on the inner mounting surface of faceplate. Rear enclosure made of rugged black powder coated aluminum.
- Mounting configurations: panel mount with studs
- Available touchscreens: resistive, and PCAP
- Operating temperature: -20° to 60° C (Extreme Temperature Package available depending on size. Please inquire.)

- Relative humidity: ≤ 0% to ≤ 95% (depending on mechanical build)
- Altitude: 10,000 ft MSL
- 2-year warranty

Computer Features:

- Embedded computer
- Operating system: Windows 10 Professional 64-bit (standard)
- 2 × 10/100/1000 Mbps LAN

Available Options:

- Optical bonding (VBOND): adhering a cover glass, protective overlay, or touchscreen to the front surface of the LCD using an optical-grade silicone to increase solar reflectivity and ruggedness.
- Wide temperature LCD panel
- Harsh duty video controller board or motherboard/SSD/RAM
- Extreme temperature: -20° to 70° C (-4° to 158° F) available for select builds. Please inquire.

Computer Options:

- System memory: 4 GB to 32 GB (depending on the motherboard)
- Storage: HDD, SSD, removable drives, various capacities, multiple drives
- Operating system: Windows 10 Professional – 32 & 64-bit, Windows 10 Enterprise, Windows 7 – 32 & 64-bit, Linux (select versions of Linux supported)
- 1 × VGA, 1 × HDMI
- Additional and/or alternate I/O ports available: Please contact your sales representative

Environmental Functional Upgrade Packages available. See next page.

Dimensions (W × H × D) and Specification Chart:

Size	Dimensions	Brightness	Resolution	Touchscreen*	Viewing Angle	Contrast	Aspect Ratio	Power Consumption (Calculated at 12 V DC)	Approx. Weight**
24" wide	25.25 × 16.34 × 3.76	300 nits	FHD 1920 × 1080	PCAP	89°/89°/89°/89°	5000:1	16:9	≈ 9 W	≈ 26 Lbs

* PCAP – projective capacitive touch

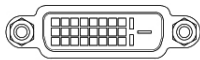*** Weight may differ based on overall configuration*
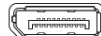
Standard I/O Connectors:

| VGA | HDMI | DVI | NTSC/PAL | Display Port | HD-SDI | LAN/Ethernet | 9-pin COM/Serial | USB Type-A | PS/2 Mouse and Keyboard |

LCD Controller Board Specifications:

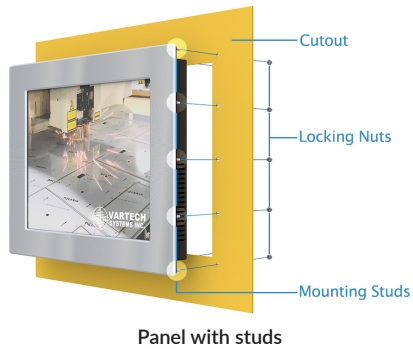| Option	Resolution	Available Video I/O Ports	Horizontal/Vertical Scan
C	Up to 1920 × 1200, 8-Bit	1 × HDMI, 1 × Display Port, 1 × VGA	60 Hz up to 1920 × 1200
D	Up to 1920 × 1200, 10-bit	1 × HDMI, 1 × DVI, 1 × VGA 1 × Composite (PAL/NTSC)	60 Hz up to 1920 × 1200

Non-standard controller boards and I/O ports available depending on panel size. Please inquire.
* Not compatible with FHD screen resolution

Standard Motherboard Specifications:

Option	Processor	Memory	Storage Drive	Operating System	Available I/O Ports
E	Intel Atom E3845	Up to 8 GB	1 × SATA-300 1 × CFAST	Win 7: 32/64-bit, Win 10: 32/64-bit	1 × RS-232/422/485 2 × USB 2.0 2 × LAN
F	Intel Celeron J1900	Up to 8 GB	1 × SATA-300 1 × CFAST	Win 7: 32/64-bit, Win 10: 32/64-bit	1 × RS-232/422/485 2 × USB 2.0 2 × LAN
G	i5-7300U	Up to 16 GB	1 × SATA-300 1 × mSATA/SIM	Win 10: 64-bit	2 × RS-232/422/485 4 × USB 3.0 2 × LAN
H	Celeron G3900TE, i3-6100TE, i5-6500TE, i7-6700TE	Up to 32 GB	1 × SATA-600	Win 10: 64-bit	1 × RS-232/422/485 3 × USB 3.0 1 × USB 2.0 2 × LAN

Non-standard motherboards and processors available depending on panel size. Please inquire.
Motherboard selection may affect operational temperature

Mounting Option Examples:

Cutout

Locking Nuts

Mounting Studs

Panel with studs

Environmental Functional Upgrade Packages:

VarTech's Environmental Functional Upgrade Packages allow for custom COTS solutions using standard feature sets.

High Bright Sunlight Readable Package
• High luminance LED backlights
• Proprietary optical film stack
• Optical bonding of protective window or touchscreen to LCD
• Anti-reflective coatings
• Brightness levels ranging from 700 nits to 1500 nits (depending on screen size)

Over 30 Years of Rugged HMI and Industrial Computer Manufacturing Experience

VARTECH SYSTEMS

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