

WEB ENABLED CONTROLLERS

ProductVity Station™

AU-PTV Series



AU-PTV shown smaller than actual size.

- Ready to Deploy Plant Floor Visualization System
- Creates Hi-Definition Key Performance Indicator (KPI) and Andon Message Boards
- Connect up to 16 CS Series Modules for Analog/ Digital I/O and PID Control
- Includes 2G Memory Card for Data Logging
- Syncs Data Logs to FTP Servers and Microsoft SQL Server
- Built-In Webserver Allows Remote View or Control from any Internet Connected PC
- 720P DVI Output Supports 720 or 1080 TVs with DVI or HDMI Interfaces
- 200+ Communications Drivers for Communicating Directly with PLCs, Drives, Motion Controllers, etc.

The ProductVity Station™ is a ready to deploy solution for displaying productivity information, andon messaging, and process status on any off-the-shelf TV, PC monitor and even projectors. The PTV leverages over 200 communications drivers via three independent serial ports and an Ethernet port, to connect and collect data from virtually any PLC, drive, bar code scanner, etc. Its 720p (1280 x 780 resolution) DVI output is compatible with both 720p and 1080p/i TVs.

The ProductVity Station's built-in data-logger can record any key performance indicators, as well as andon events for later review. The PTV can synchronize the log files with any FTP server and/or Microsoft's SQL Server for further analysis.

The ProductVity Station extends production monitoring to remote personnel by providing email and text alerts, and its built-in webserver allows productivity information to be monitored via any networked PC or smart-phone. If enabled, remote personnel can take partial or full control of the system remotely, allowing a maintenance person to effect changes without a site visit.

The ProductVity Station ships complete with a 2GB CompactFlash card, as well as a DVI to HDMI cable 4.6 m (15'), and HDMI/DVI adaptor. The PTV is programmed with the popular Crimson® software.



TV not included.

Transforms a standard consumer TV into a versatile real-time KPI production scoreboard and andon system.

SPECIFICATIONS

POWER: 24 Vdc \pm 10% 450 mA minimum (1 module); 3.4 Amps maximum (16 modules + Expansion Card)
Must use NEC Class 2 or Limited Power Source (LPS) rated power supply.

COMMUNICATIONS

USB/PG Port: Adheres to USB 2.0 specification full speed only via Type B connection

USB Host Port: Complies with Universal Serial Bus Specification Rev 2.0

Support data transfers at full-speed. Hardware over current protected (0.5 A max)

DVI Port: Digital Visual Interface version 1.3, single link, provides a digital video feed, with a resolution of 1280 horizontal x 720 vertical pixels, progressive scan, adhering to CEA-861-E (720 p). DDC support, HDCP is not supported. Color depth is 32 K.

Serial Ports: Format and Baud Rates for each port are individually software programmable. Serial ports are individually isolated.

Communication Port to Port: 1500 Vac

Communication Ports to Power: 1000 Vdc

Communication Ports to Earth: 1000 Vdc

Note: PTV dielectric withstand test per 1 minute

Communication Ports: RS232/PG, RS232 port, RS485 port, Ethernet port and option cards

RS232/PG Port: RS232 port via RJ12

COMMS Ports: RS422/485 port via RJ45, and RS232 port via RJ12

DH485 TXEN: Transmit enable; open collector, $V_{OH} = 15$ Vdc, $V_{OL} = 0.5$ V @ 25 mA maximum

Ethernet Port: 10 BASE-T / 100 BASE-TX

RJ45 jack is wired as a NIC (Network Interface Card). The jack shield is electrically connected to Earth ground, but the port is isolated.

LEDs:

STS: Status LED indicates condition of master

USB HOST: HOST LED indicates port status/activity

TX/RX: Transmit/Receive LEDs show serial activity

Ethernet: Link and activity LEDs

CF: CompactFlash LED indicates card status and read/write activity

Memory:

On-Board User Memory: 128 Mbytes of non-tile Flash memory

On-Board RAM: 64 Mbytes

Memory Card: CompactFlash Type II slot for Type I and Type II cards

Real-Time Clock: Typical accuracy is less than one minute per month drift. Crimson's Sntp facility allows synchronization with external servers.

Battery: Lithium coin cell, typical lifetime of 10 years at 25°C (77°F); A "Battery Low" system variable is available so that the programmer can choose specific action(s) to occur when the battery voltage drops below its nominal voltage.

This unit is NOT field serviceable. All work must be done by a qualified technician.

Environmental Conditions:

Operating Temperature Range: 0 to 45°C (32 to 113°F)

Storage Temperature Range: -30 to 70°C (-22 to 158°F)

Operating and Storage Humidity: 80% maximum relative humidity, non-condensing, from 0 to 50°C

Altitude: Up to 2000 m (6562')

Construction: Case body is black high impact plastic and stainless steel. For indoor use only. Installation Category II, Pollution Degree 2.

Power Connection: Removable wire clamp screw terminal block

Wire Gage Capacity: 24 to 12 AWG

Torque: 4.45 to 5.34 in/lb (0.5 to 0.6 N-m)

Mounting: Snaps onto standard DIN style top hat (T) profile mounting rails according to EN50022 35 x 7.5 and 35 x 15

CERTIFICATIONS AND COMPLIANCES

Safety: Check each module's specifications to determine system compliance

IEC 61010-1, EN 61010-1: Safety requirements for electrical equipment for measurement, control, and laboratory use, Part 1

ELECTROMAGNETIC COMPATIBILITY

Emissions and Immunity to EN 61326: 2006: Electrical equipment for measurement, control and laboratory use.

Immunity to Industrial Locations:

Electrostatic Discharge EN 61000-4-2 Criterion B: 4kV contact discharge; 8kV air discharge

Electromagnetic RF Fields EN 61000-4-3 Criterion A3: 10V/m (80 MHz to 1 GHz); 3 V/m (1.4 GHz to 2 GHz); 1 V/m (2 GHz to 2.7 GHz)

Fast Transients (Burst) EN 61000-4-4 Criterion B:

Power 2kV; I/O signal 1kV, I/O signal connected to power 2kV

Surge EN 61000-4-5 Criterion B: Power 1 kV L to L, 2 kV L to G signal 1 kV

RF Conducted Interference EN 61000-4-6 Criterion A: 3 Vrms

Emissions: EN55011 Class A

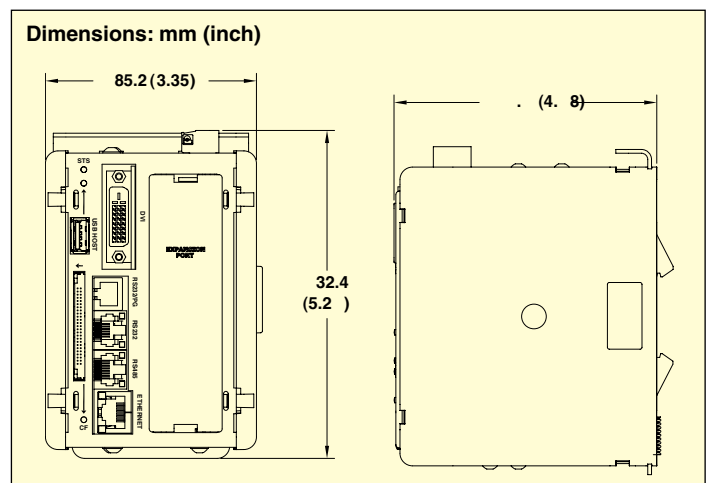
Notes:

1. Criterion A: Normal operation within specified limits.

2. Criterion B: Temporary loss of performance from which the unit self-recovers.

3. Certain modules with analog input and/or output signals may have their signals deviate during disturbance but self-recover when disturbance is removed (refer to individual modules for details).

Weight: 1.313 lb (596 g)



To Order

MODEL NO.	DESCRIPTION
AU-PTV	ProductVity station, multiple serial ports and ethernet, protocol converter, data logger, web server, DVI output

Comes complete with 2 G memory card.

Ordering Example: AU-PTV, ProductVity Station, PSDR0100, power supply, and CBLUSB00, USB programming cable.

MODEL NO.	DESCRIPTION
COMMUNICATION OPTION CARDS	
AU-XCCN	CanOpen option card
AU-XCDN	DeviceNet option card
AU-XCPBDP	Profibus DP option card
AU-XCENET	2nd ethernet port option card
AU-XCGSM	GSM/GPRS modem option card
AU-XCRS	Dual serial port RS232/485 option card
ACCESSORIES	
AU-CBLVID	Spare DVI/HDMI cable
CBLPROG0	RS232 programming cable, DB9 to RJ11
CBLUSB00	USB programming cable, type A-B
PSDR0100	Mini power supply, 24 Vdc, 1A
PSDR0200	Mini power supply, 24 Vdc, 2A
PSDR0400	Mini power supply, 24 Vdc, 4A
CSTERM00	Replacement termination plug
RSRSTP00	Rail stops (quantity 2)
I/O AND PID CONTROL MODULES (ADD UP TO 16 PER PTV)	
CSDIO14R	8 digital inputs, 6 relay outputs
CSDIO14S	8 digital inputs, 6 digital outputs
CSINI800	8 analog inputs, 4 to 20 mA
CSINV800	8 analog inputs, ± 10 V
CSTC8000	8 thermocouple inputs
CSRTD600	6 RTD inputs
CSOUT400	4 analog outputs, selectable (0-5V, 0-10V, ± 10 V, 0/4-20mA)
CSPID1R0	Single loop PID temperature module, relay outputs
CSPID1RA	Single loop PID temperature module, relay outputs, analog output
CSPID1S0	Single loop PID temperature module, digital outputs
CSPID1SA	Single loop PID temperature module, digital outputs, analog output
CSPID1TA	Single loop PID temperature module, triac outputs, analog output
CSPID2R0	Dual loop PID temperature module, relay outputs
CSPID2S0	Dual loop PID temperature module, digital outputs
CSPID2T0	Dual loop PID temperature module, triac outputs
CSPID2TA	Single loop PID temperature module, triac outputs, analog output
CSSG10RA	Single loop PID strain gage module, relay outputs, analog output
CSSG10SA	Single loop PID strain gage module, digital outputs, analog output
CSSG11RA	Single loop PID strain gage module, 2 strain gage inputs, relay outputs, analog output
CSSG11SA	Single loop PID strain gage module, 2 strain gage inputs, digital outputs, analog output
DIN RAIL	
DRTB-RAIL-3575-1	DIN rail 35 x 7.5 mm, 1 m (3.3') long
DRTB-RAIL-3575	DIN rail 35 x 7.5 mm, 2 m (6.6') long
DRTB-RAIL-3575-1-20PK	DIN rail 35 x 7.5 mm, 1 m (3.3') long, 20 pack
DRTB-RAIL-3575-20PK	DIN rail 35 x 7.5 mm, 2 m (6.6') long, 20 pack