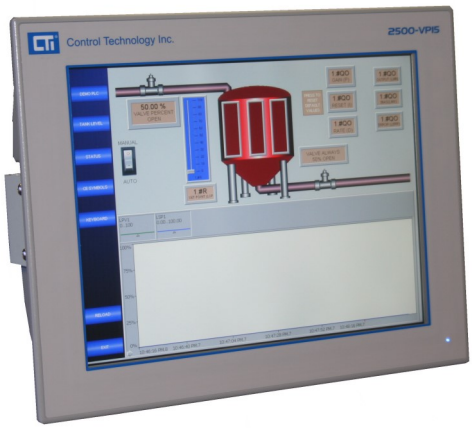
2500 Series® PLC System
Product Bulletin

# 2500 Series® HMI Panels

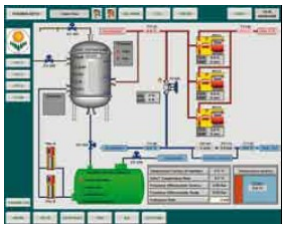
***Powered by Zenon***




## Description

2500 Series® HMI Panels are designed to allow easy connection and configuration of HMI applications on CTI 2500 Series® Processors. The panels are based on the latest Intel Atom processor technology and feature a high-brightness LCD panel for easy readability under industrial conditions. The combination of Windows® 7 Embedded and the COPA-DATA Zenon HMI engine offers wizards-based automatic engineering, object -oriented parameterization, and efficient reuse of projects and modules. With Zenon you can develop and configure a wide variety of HMI applications—from operator panels to full SCADA process systems—using a single development tool.

An optimized driver is included for connecting to CTI 2500 Series® PLCs over Ethernet. The panel can also communicate with many other PLC systems, including Siemens S5/S7 and Allen-Bradley.



Food & beverage and pharmaceutical users can benefit from data recording and access regulations in strict accordance with FDA 21 CFR Part 11 – all at the click of a mouse.

When using CTI 2500 Series® Processors, program documentation (tag names) can be imported from your PLC Workshop program to make application development easier.

## Hardware Specifications

| | |
|---|---|
| **CPU** | Intel® Atom™ N270 1.6GHz |
| **Memory** | 2GB DDR2 SDRAM |
| **Chipset** | Intel® 945GSE + ICH7M |
| **Network** | 2 x Realtek RTL8111B<br>10/100/1000Base-T |
| **Storage** | CompactFlash Type II<br>Socket with 8GB |
| **LCD Display** | 15" TFT LCD |
| **Resolution** | 1024 x 768, XGA |
| **Backlight Life** | 50,000 hours |
| **Luminance** | 550 cd/m² |
| **Touch Screen** | 8-wire, resistive |
| **Other Ports** | PS2 Keyboard.Mouse<br>USB 2.0 (2 ports)<br>Serial (4 ports) |
| **Power** | 24VDC +/-10%, 2A |

| | |
|---|---|
| **Environmental** | |
| Operating temp | 0 to +50C |
| Storage temp | -20 to +60C |
| Humidity | 10% - 95% noncondensing |
| Vibration | 1Grms |
| Ingress | NEMA4, IP65 |

| | |
|---|---|
| **Mechanical** | |
| Dimensions | 390 x 52.3 x 310mm<br>15.35 x 2.06 x 12.2 in |
| Weight | 4.4kg (9.7 lb) |
| **Shipping** | |
| Dimensions | 500 x 200 x 460mm<br>20” x 8” x 18” |
| Weight | 7kg (15 lb) |
| **Approvals** | UL, UL-C, CE<br>Class 1 Div 2 (pending) |
| **Warranty** | 2 years |

## Software Specifications

### Runtime System

**Maximum application size is limited only by memory. No individual limits on screens, variables, or objects.**

| | |
|---|---|
| **Tag count** | 256-2048 (depending on license purchased) |
| **Tag definition** | 1 tag = 1 memory location read from PLC |

### Application Development System

**Computer requirements**

Windows® XP, Vista, Windows® 7, Windows® 8

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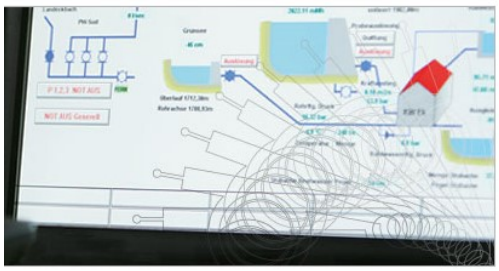
## Zenon HMI Engine Features

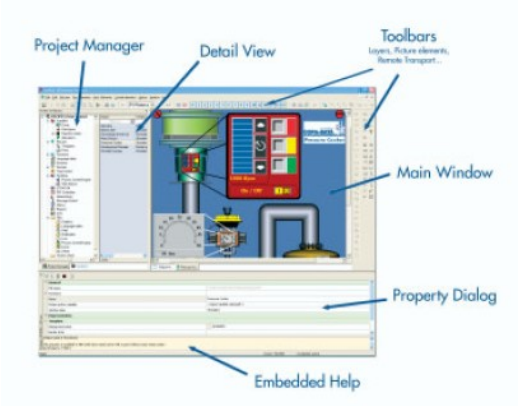
Zenon is a full-featured HMI and SCADA system which allows development of applications from simple operator panels to complex server-based SCADA with redundancy—all using a single development tool.

Reduce the time pressure on your projects by relying on intelligent wizards and on software that is geared towards usability. Give your engineers a HMI/SCADA system that allows them to solve even the most challenging tasks in a secure, fast and simple way – Zenon. With just one software package, you will benefit from important functions for successful HMI/SCADA projects:

- Multi-project editor—open and work on multiple projects at once, freely sharing objects between projects
- Optimized driver for CTI 2500 Series® supports all memory types and data types
- Optional Extended Trend and Historian (Starter Edition) which allows historian files to be saved in multiple formats
- Easy, frame-based screen design allows quick changes to one, many or <u>all</u> screens in the project
- Powerful function editor replaces “scripts” in conventional HMIs to provide high level control of the application
- Make changes to the application while running
- Chronological Event List (CEL) object for tracking and recording events in the system
- Alarm Manager List (AML) object for displaying and managing alarms



- Full User Administration for setting individual user rights down to the object level
- Power Recipe Manager for batch-based processes
- Ability to connect to the HMI Panel from any PC using a web browser (option)
- Automatic Engineering—Smart wizards perform routine tasks and relieves the workload on your engineers. Free your mind for efficient solutions.
- Object-oriented Parameterization—No more tedious programming work. Parameterize objects easily and efficiently with a mouse click and reuse them again and again.
- Intelligent Integration—One central data source for a better overview, less errors and reduced costs – open to any connection.




- Efficient Reuse—Why start over every time? Reuse projects and modules with Zenon’s smart import and export functions.
- Elegant Networking—Create fast Zenon networks – even with complex structures – with only a few mouse clicks.
- Local and worldwide—You can choose the languages you want to use for Engineering and in the Runtime. You can then simply switch between them at any time.

## Maintenance and Support Options

Standard warranty included with 2500 Series® HMI Panels consists of 2yr warranty on hardware and 60 days warranty/upgrades on software. BASIC SUPPORT is included at no additional charge.

### BASIC SUPPORT

- Free lifetime support by email is standard on all HMI panels. All BASIC SUPPORT requests are processed in the order they are received.

### PREMIUM ANNUAL SUPPORT

- Includes priority telephone support with response in 1 business day

### EXTENDED HARDWARE WARRANTY

- Available in 1yr, 2yr, 3yr terms
- Must be purchased within 60 days of the ship date of the HMI panel
- Extends your hardware warranty for 1, 2, or 3 years
- Includes advanced replacement for warranty hardware failures (2 business days), UPS ground shipment (United States only)

### ANNUAL RUNTIME SOFTWARE MAINTENANCE

- Includes 1-year free upgrades on the Zenon runtime software installed on the HMI panel
- Must be purchased within 60 days of the ship date of the HMI panel

### ANNUAL DEVELOPMENT SOFTWARE MAINTENANCE

- Includes 1-year free upgrades on the Zenon Application Development Sofware for Windows®
- Must be purchased within 60 days of the ship date of the HMI panel