

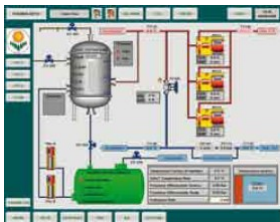
# 2500 Series<sup>®</sup> HMI Panels



## Description

2500 Series<sup>®</sup> HMI Panels are designed to allow easy connection and configuration of HMI applications on CTI 2500 Series<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> 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<sup>®</sup> Processors, program documentation (tag names) can be imported from your PLC Workshop program to make application development easier.

## Hardware Specifications

|                       |   |
|-----------------------|---|
| <b>CPU</b>            | Intel <sup>®</sup> Atom™ N270 1.6GHz                        |
| <b>Memory</b>         | 2GB DDR2 SDRAM  |
| <b>Chipset</b>        | Intel <sup>®</sup> 945GSE + ICH7M                           |
| <b>Network</b>        | 2 x Realtek RTL8111B<br>10/100/1000Base-T                   |
| <b>Storage</b>        | CompactFlash Type II<br>Socket with 8GB                     |
| <b>LCD Display</b>    | 15" TFT LCD   |
| <b>Resolution</b>     | 1024 x 768, XGA   |
| <b>Backlight Life</b> | 50,000 hours  |
| <b>Luminance</b>      | 550 cd/m <sup>2</sup>                                       |
| <b>Touch Screen</b>   | 8-wire, resistive   |
| <b>Other Ports</b>    | PS2 Keyboard/Mouse<br>USB 2.0 (2 ports)<br>Serial (4 ports) |
| <b>Power</b>          | 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            |
| Class 1 Div 2 (pending) |
| 2 years                 |

## Warranty

## Software Specifications

### Runtime System

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

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

### Application Development System

#### Computer requirements

Windows<sup>®</sup> XP, Vista, Windows<sup>®</sup> 7, Windows<sup>®</sup> 8



**Control Technology Inc.**

5734 Middlebrook Pike, Knoxville, TN 37921-5962  
Phone: +1.865.584.0440 Fax: +1.865.584.5720  
www.controltechnology.com

## 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.

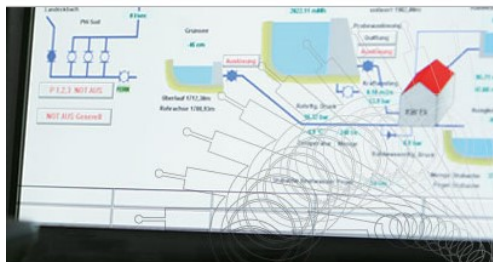
Reduce the time pressure on your projects by relying on intelligent wizards and on software that is geared towards usability. Give your engineers a HMI/SCADA system that allows



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:

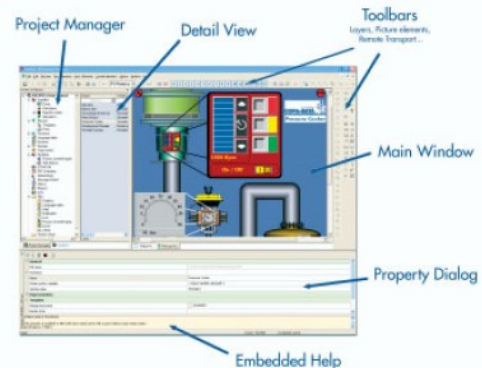
- Multi-project editor—open and work on multiple projects at once, freely sharing objects between projects
- Optimized driver for CTI 2500 Series® supports all memory types and data types
- Optional Extended Trend and Historian (Starter Edition) which allows historian files to be saved in multiple formats
- Easy, frame-based screen design allows quick changes to one, many or all 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 dis-



playing 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 Software for Windows®
- Must be purchased within 60 days of the ship date of the HMI panel

## Ordering information

### HMI Panel

|                  |  |
|------------------|--|
| 2500-VP15-N4-W7R | 15" HMI Panel, Windows® 7 Embedded, NEMA4, 256 tag |
| 2500-Z256-512    | Runtime 256-tag to 512-tag upgrade                 |
| 2500-Z256-1024   | Runtime 256-tag to 1024-tag upgrade                |
| 2500-Z256-2048   | Runtime 256-tag to 2048-tag upgrade                |
| 2500-Z512-1024   | Runtime 512-tag to 1024-tag upgrade                |
| 2500-Z512-2048   | Runtime 512-tag to 2048-tag upgrade                |
| 2500-Z1024-2048  | Runtime 1024-tag to 2048-tag upgrade               |

### Runtime Software Options

|             |  |
|-------------|--|
| 2500-Z-ETAS | Extended Trend and Historian (Starter Edition) |
| 2500-Z-WSP  | Web Server Pro Light                           |

### Development Software

|                  |  |
|------------------|--|
| 2500-Z2K-DEV-USB | Zenon Application Development Software (Editor), maximum 2048 tags, USB Dongle License Key |
|------------------|--|

### Accessories

|                       |  |
|-----------------------|--|
| 2500-VP-PS            | 65W 110/220 VAC Power Supply   |
| 2500-VP-PSC           | NOTE: any 24V +/- 10%, 2A power supply can be used<br>3-pin power supply connector |
| 2500-VP-VESA-ADPT-KIT | VESA mount bracket kit   |

### Maintenance and Support

|                  |  |
|------------------|--|
| 2500-VP15-ASC    | Premium Annual Support                                       |
| 2500-VP15-EXW1   | Extended Hardware Warranty, 1-year (total warranty 3 years)  |
| 2500-VP15-EXW2   | Extended Hardware Warranty, 2-years (total warranty 4 years) |
| 2500-VP15-EXW3   | Extended Hardware Warranty, 3-years (total warranty 5 years) |
| 2500-Z256-RT-AMP | Annual Runtime Software Maintenance, 256 tag                 |
| 2500-Z512-RT-AMP | Annual Runtime Software Maintenance, 512 tag                 |
| 2500-Z1K-RT-AMP  | Annual Runtime Software Maintenance, 1K tag                  |
| 2500-Z2K-RT-AMP  | Annual Runtime Software Maintenance, 2K tag                  |
| 2500-Z2K-DEV-AMP | Annual Development Software Maintenance, 2K tag              |

NOTE: when purchasing a Runtime Tag Upgrade, you must supply the serial number of your previous license.