

# 2500 Series<sup>®</sup> HMI Panels

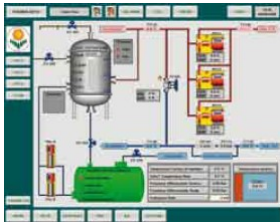
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## Description

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 <sup>™</sup> N270 1.6GHz
<b>Memory</b>	2GB DDR2 SDRAM
<b>Chipset</b>	Intel <sup>®</sup> 945GSE + ICH7M
<b>Network</b>	2 x Realtek RTL8111B 10/100/1000Base-T
<b>Storage</b>	CompactFlash Type II 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 USB 2.0 (2 ports) 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 15.35 x 2.06 x 12.2 in
Weight	4.4kg (9.7 lb)

## Shipping

Dimensions	500 x 200 x 460mm 20" x 8" x 18"
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Weight 7kg (15 lb)

## Approvals

UL, UL-C, CE  
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.**

<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

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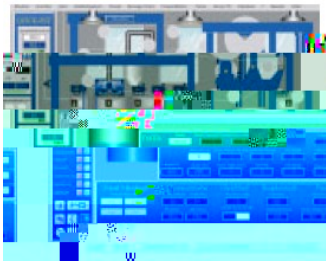
**Control Technology Inc.**

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Phone: +1.865.584.0440 Fax: +1.865.584.5720  
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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.

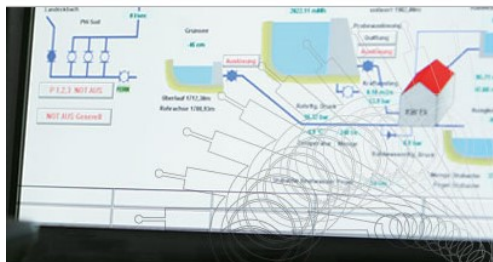
Reduce the time pressure on your projects by relying on intelligent wizards and on software that is geared towards usability. Give your engineers a HMI/SCADA system that allows



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:

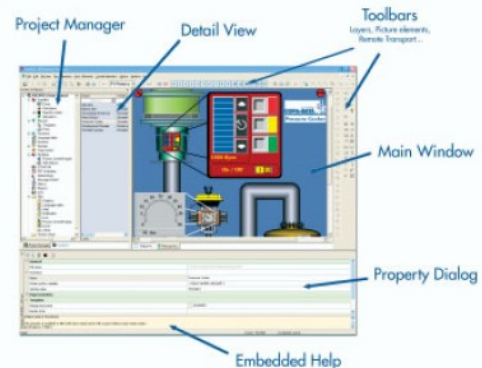
- Multi-project editor—open and work on multiple projects at once, freely sharing objects between projects
- Optimized driver for CTI 2500 Series® supports all memory types and data types
- Optional Extended Trend and Historian (Starter Edition) which allows historian files to be saved in multiple formats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

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