

# WA-ST SCADA Series

12.1 ~ 21.5" TFT LCD SCADA Panel PC  
with WebAccess/SCADA

NEW



WebAccess/SCADA



## Features

### Open SCADA Application-Ready-Package with SCADA Panel PC

- Industrial 12.1"~21.5" TFT LCD Panel with 50K Lifetime LED backlight
- Durable 5-wire resistive / capacitive touch screen
- True-flat IP66 certified front panel protection
- 1 TB Hard disk drive installed
- Microsoft Windows Embedded 7 Pro 64-bit installed
- Supports iDoor technology for diverse applications

### WebAccess/SCADA

- Preinstalled WebAccess/SCADA 1500 tags
- 100 % Web-based SCADA software architecture as key player connects all devices between OT/IT level
- Remote SCADA monitoring by HTML5-based dashboard on iOS, Android mobile devices
- Supports Open Data Protocols: OPC UA/DA, DDE, and Modbus
- Supports Open Database: SQL, Oracle, MySQL and Acces

## Introduction

The WA-ST SCADA series is a complete application-ready-package offering that includes a SCADA panel PC with a 12.1 ~ 21.5" TFT LCD, 1 TB HDD, Microsoft Windows Embedded 7 Pro, and WebAccess/SCADA. This provides users with an integrated SCADA solution and web-based real-time production information system that correlates production data for intelligent factory management.

The built-in WebAccess/SCADA software plays a key role in integrating data from various field sources, centric network stations, cloud-based data servers, and mobile thin-client devices. The open web interface supports multiple data protocols and APIs, while HTML5 enables the development of cloud-based cross-system IoT applications for various vertical markets.

### Contents of the Open SCADA Application-Ready-Package Solution for Industry 4.0

- 12.1 ~ 21.5" TFT LCD SCADA panel PC
- 1TB Hard disk drive
- Microsoft Windows Embedded 7 Pro (64 bit)
- WebAccess/SCADA Professional 1500 tags

## Open SCADA Solution Specifications

### Real-Time Factory Monitoring via Mobile Devices

- HTML5-based dashboard displays real-time information on IE 11, Safari, Chrome and Firefox across Android, iOS and Windows mobile devices
- Includes ample widget library and builder for customized data, trend, alarm analysis page
- Supports open RESTful/SignalR APIs allowing user to withdraw SCADA data showing on APPs
- Supports maximum 1,024 client terminal without further license

### Production Information Stored in the Cloud

- Empower the efficiency of all engineering works such as database configuration, system management by 100 % Web-based SCADA software architecture
- Supports SQL, Oracle, MySQL and MS Access for cloud-based database management
- Exports self-defined/daily/weekly/monthly/yearly Excel reports
- Integrated with WISE-PaaS/RMM that users can monitor remote device status such as CPU loading, fan speed and restore all the history on cloud server
- Broadcasts alarm message via email, SMS when abnormal or suspicious production data is detected

### Integrates Data from Sensors, HMI, and Controllers

- Supports OPC-UA/DA, DDE, Modbus and BACnet Server/Client to communicate with WebAccess/HMI or other 3rd party software.
- WebAccess/SCADA and WebAccess/HMI, supporting more than 500 industrial protocols, enables the manufacturing data integration from remote sensors, operational HMI, facilities controllers – e.g. The WA-ST/SU SCADA PCs are able to simultaneously communicate with WA-HT/HU HMI PCs to get the machinery data and upload the real-time processing information to cloud data server where broadcasts factory production message on thin client terminal such as mobile devices

### Reliable Distributed SCADA System Design for Field Operations

- Supports WA-ST/SU SCADA system redundancy: The WA-ST/SU platforms communicates with backup ports or devices if the primary connection is lost and automatically restores to the primary unit when the connection becomes available
- Rugged fanless panel PC with a backlight life of up to 50,000 hours
- Touch screen passed 36 million touches test at single point
- True-flat touch screen designed with IP66 front protection
- Easy installation by panel mounting
- Approved Certification: BSMI, CCC, CE, FCC Class A, UL
- Wide operating temperature

## Configuration Options

Series	SCADA Panel PC			
Part Number	WA-ST1251T-E15H4AE	WA-ST1551T-E15H4AE	WA-ST1751T-E15H4AE	WA-ST2140W-G15H4AE
SCADA Panel PC	TPC-1251T-E3AE	TPC-1551T-E3AE	TPC-1751T-E3AE	TPC-2140WP-T3AE
Operating System	Microsoft Windows Embedded 7 Pro (64 bit)			
SCADA Software	WebAccess/SCADA Professional 1500 tags			
CPU	Intel® Atom™ E3827 1.75 GHz			AMD G-series T56E 1.65GHz
Memory	4 GB of DDR3L			
Aspect Ratio	4:3			16:9
Display (Size, Type)	12.1" XGA TFT LED LCD	15" XGA TFT LED LCD	17" SXGA TFT LED LCD	21.5" Full HD TFT LED LCD
Max. Resolution/Colors	1024 x 768 / 16.2 M	1024 x 768 / 16.7M	1280 x 1024 / 16.7M	1920 x 1080 / 16.7M
Backlight MTBF	50,000 hrs			
Touchscreen	5-wire resistive			Projected capacitive
Storage	1TB HDD			
Expansion Slots	1 x Full-size Mini PCIe			
Mounting	Desktop, wall, or panel mount			Panel mount
Network (LAN)	2 x 10/100/1000 Base-T			
I/O	1 x RS-232, 1 x RS-232/422/485, 1 x USB 3.0, 1 x USB 2.0	1 x RS-232, 1 x RS-232/422/485, 1 x USB 3.0, 1 x USB 2.0	1 x RS-232, 1 x RS-232/422/485, 1 x USB 3.0, 1 x USB 2.0	3 x RS-232, 1 x RS-422/485, 2 x USB 2.0, 1 x HDMI, 1 x Mic In, 1 x Line Out
iDoor Expansion	1 x iDoor			N/A
DC Power Input (Voltage)	24 V <sub>DC</sub> ± 20%			18 ~ 32 V <sub>DC</sub>
Power Consumption	45.6W	40.8W	43.2W	35 W
Ingress Protection	IP66-rated front panel			
Operating Temperature	-20 ~ 60°C			0 ~ 55°C
Certification	CE, FCC, BSMI, CCC, UL			

## Ordering Information

- **WA-ST2140W-G15H4AE** TPC-2140WP-T3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P
- **WA-ST1751T-E15H4AE** TPC-1751T-E3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P
- **WA-ST1551T-E15H4AE** TPC-1551T-E3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P
- **WA-ST1251T-E15H4AE** TPC-1251T-E3AE, SCADA Runtime 1500 tags, 1TB HDD, WES7P

## Accessories

- **PWR-247-CE** 100-240V 60W 24V 2.5A Power Adapter
- **1702002600** Power Cable US Plug 1.8 M
- **1702002605** Power Cable EU Plug 1.8 M
- **1702031801** Power Cable UK Plug 1.8 M
- **1700000596-11** Power Cable China/Australia Plug 1.8 M

## Selected iDoor Modules

- **PCM-24D2R2-BE** 2-Ports Isolated RS-232 mPCIe, DB9
- **PCM-24D2R4-BE** 2-Ports Isolated RS-422/485 mPCIe, DB9
- **PCM-24D4R2-BE** 4-Ports Non-Isolated RS-232 mPCIe, DB37
- **PCM-24D4R4-BE** 4-Ports Non-Isolated RS-422/485 mPCIe, DB37
- **PCM-27D24DI-AE** 24-Channels Isolated Digital I/O with counter mPCIe, DB37
- **PCM-27J3AU-AE** 3-Port Audio Stereo, mPCIe, 3.5 mm Jack
- **PCM-24S2WF-BE** 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe
- **PCM-24R1TP-AE** Intel® 82574L, GbE, RJ45 x 1