

WA-ST SCADA Series

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

NEW



WebAccess/SCADA



Introduction

The WA-ST SCADA series is a complete application-ready-package offering which includes SCADA Panel PC with TFT LCD panel size from 12.1"~21.5", 1 TB HDD, Microsoft Windows embedded 7 Pro and WebAccess/SCADA. This allows users to easily achieve an integrated SCADA solution, the Web-based real-time production information system, correlating the production data within manufacturing operation for intelligent factory management in industries.

The built-in WebAccess/SCADA plays the key role to integrate data from different operating field side sources to centric network stations, cloud based data servers and thin client mobile devices. The open Web interface supporting multiple data protocols, APIs and HTML5 enables user to develop cloud based cross-system IoT applications on in various vertical markets.

Ready-to-go Open SCADA Solution Package enabling Industry 4.0 includes:

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

Open SCADA Solutions Specifications

Real-time Factory Monitoring by 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 in 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 report with EXCEL spread sheet
- 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

Data Integration from Sensors, HMI to 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

Features

Open SCADA Solution by Application-Ready-Package includes: 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 Access

Reliable Distributed SCADA System Design for Field side Operation

- 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 backlight Life up to 50,000 hrs
- 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 Certifications: BSMI, CCC, CE, FCC Class A, UL
- Wide operating temperature

Configuration Options

Series	SCADA Panel PC			
Ordering P/N	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 (64bit)			
SCADA Software	WebAccess/SCADA Professional 1500 tags			
CPU	Intel Atom E3827 1.75GHz			AMD G-series T56E 1.65GHz
Memory	4GB 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(hrs)	50,000 hrs			
Touchscreen	5-wire Resistive			Projected capacitive
Storage	1TB HDD			
Expansion Slots	Full-size Mini PCIe x1			
Mounting	Desktop, Wall or Panel mount			Panel mount
Network(LAN)	10/100/1000 Base-T x 2			
I/O	RS-232 x 1 RS-232/422/485 x1 USB 3.0 x 1 USB 2.0 x 1	RS-232 x 1 RS-232/422/485 x1 USB 3.0 x 1 USB 2.0 x 1	RS-232 x 1 RS-232/422/485 x1 USB 3.0 x 1 USB 2.0 x 1	RS-232 x 3 RS-422/485 x1 USB 2.0 x 2 HDMI x 1 Mic in x 1, Line out x1
iDoor Expansion	iDoor x1			N/A
DC Power Input (Voltage)	24VDC ± 20%			18 ~ 32 VDC
Power Consumption	45.6W	40.8W	43.2W	35 W
Ingress Protection	Front Panel IP66			
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 Supply
- **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** Power Cable China/Australia Plug 1.8 M

Selected iDoor Modules

- **PCM-24D2R2-AE** OXPcie-952 UART, Isolated RS-232, DB9 x 2
- **PCM-24D2R4-AE** OXPcie-952 UART, Isolated RS-422/485, DB9 x 2
- **PCM-24D4R2-AE** OXPcie-954 UART, Non-Isolated RS-232, DB37 x 1
- **PCM-24D4R4-AE** OXPcie-954 UART, Non-Isolated RS-422/485, DB37 x 1
- **PCM-27D24DI-AE** Isolated Digital I/O, 16DI/8DO, mPCIe, DB37 x 1
- **PCM-27J3AU-AE** 3-Port Audio Stereo, mPCIe, 3.5 mm Jack
- **PCM-24S2WF-AE** 802.11 a/b/g/n 2T2R w/ Bluetooth4.0, Half-size mPCIe
- **PCM-24R1TP-AE** Intel® 82574L, GbE, RJ45 x 1