

# HMI-TSND0U-22SR-X00H

21.5" HMI Panels with Rugged Stainless Steel Bezels  
Power-optimized, Intel® Atom™ E3845 Processor

## Features and Benefits

- d r - t a d a - t
- Field-replaceable units of modular touch displays and PCs
- Rugged stainless steel bezels with aluminum housing
- Intel® Atom™ E3845
- Externally accessible
- Externally
- Electrical isolation protection on serial ports and DC power
- High temperature, vibration, shock and EMC resistance
- Supports Windows Embedded or operating systems
- UL listing and CE certificates, RoHS, FCC and E compliant

## Introduction

AIS 21.5" Standard HMI Touch Panels and Modular Box PCs offer users a great range of flexibility and versatility in applications with an affordable price tag. Integrated with the Intel® Atom™ Processor E3845, the Standard series provides great value in an energy-efficient and cost-effective platform from middle-to-high-end SCADA applications. With their stainless bezels and other features, they can be used in harsh industrial environments. The ability to easily replace the box PC which houses the engine makes upgrading or expanding your control and monitoring system extremely simple.

## Specifications

Display	
Size in inches / resolution in pixels	21.5" / XGA, 1920 x 1080
Brightness / luminance	350 nits / 350 cd/m²
MTBF of backlight	LED-backlight up to 100,000 hours in Eco mode
Touchscreen	Single-touch (resistive)
System Hardware	
Processor	Intel® Atom™ E3845 Processor; 2M Cache, 1.91 GHz, 10 W maximum TDP
o cores	4
Memory / # of slots	From 4 GB DDR3L 1333 SDRAM, configurable up to 8 GB / 2 slots
Graphics / video	Intel HD graphics; DirectX 11.1, OpenCL /GL, and 4K videos Quick Sync encoder
Drives	
Mass storage	1 x 180 GB SLC SSD
Secondary storage	32GB m-SATA SSD
Optical drives	Connection via USB port

Interface ports	
Ethernet	[WKHUQHW7&35-
USB	4 x USB 2.0
Serial	RS232/422/485, isolated
Graphic	1 x VGA; 1 x HDMI
Audio	Line-in, Line-out
General features	
Operating system	:LQGR&(PEHGGHGELW:LQGR&(PEHGGHG
Current supply	24 V DC; 9.6 to 28.8 V, isolated
Bezel / housing	Stainless steel / aluminum
Mounting options	Panel PC: Panel / wall mount; Box PC: Wall / din-rail mount
Packages / bundles	Packages with Wonderware InTouch, ready-to-use HMI software (optional)
Environment / ambient conditions	
Degree of protection / thermal	Front: IP66; Rear: IP20 / Fanless
Electromagnetic compatibility	CE, FCC A, EN 61000-6-4, EN 61000-6-3, CISPR22, RoHS
Vibration during operation	Tested according to DIN IEC 60068-2-6: 10 - 58 Hz: 0.075 mm
Shock during operation	Tested according to DIN IEC 60068-2-27: 15 gn for 11 ms
Ambient temperature	0...50°C (32...122°F)
Relative humidity	5 to 95% non-condensing
Certifications / regulations	UL/cUL/IEC 61010-1, UL/cUL/IEC 62368-1, CB reports available for all models
Dimensions	
Operator panel / cut-out (W x H)	297 x 236 mm
Installation dimensions (W x H x D)	313.5 x 246 x 79.6 mm
Product Weight (lb /kg)	
Contractual warranty	
Period	12 months

Unit: mm

