

# HMI-TCND0U-22AC-X00H

**21.5" HMI Panels with Multi Touch Widescreen  
Energy-efficient, Intel® Celeron® Processor N2930**



## Features and Benefits

- Cost-effective control and monitoring for simple HMI apps
- HMIs offer machine-oriented operation and monitoring
- Rugged, compact, fanless, and multiple interface options
- High performance processor, graphics, memory and power
- Intel® Celeron® N2930 CPU, DDR3L-1333 SDRAM up to 8 GB
- IP65 degree of protection, resistance against corrosion
- High availability communication and storage
- Highly reliable touchscreens and long lasting displays
- Comprehensive operating system, software, and services
- High temperature, vibration, shock, and EMC resistance
- UL listed, CB certified, RoHS, FCC and CE compliant

## Introduction

AIS 21.5" Compact HMI Multi-touch Panel PCs are equipped with the cutting-edge processor, Intel® Celeron® N2930, energy-efficient PC with 32- or 64-bit operating systems, highly reliable touch screens, and long lasting industrial displays. These AIS systems feature compact and lightweight aluminum die-cast housing and are: easy to service, maintenance-free, space-saving, fan-less, able to withstand high electromagnetic environments, resistant to shock and vibration, and ideal for entry-level simple HMI applications. AIS 21.5" embedded Panel PCs are powered by: Quad-core Intel® Celeron® Processor N2930, 2M Cache up to 2.16 GHz, Intel HD Graphics supporting DirectX 11.1, OpenCL/GL, and 4K videos Quick Sync encoder, onboard non-volatile DDR3L-1333 memory, and 12-24 VDC (± 20% power tolerance) wide input-voltage range power supply.

## Specifications

Display	
Size in inches / resolution in pixels	21.5" / HD1080, 1920 x 1080
Brightness / luminance	250 nits / 250 cd/m <sup>2</sup>
MTBF of backlight	LED-backlight up to 100,000 hours in Eco mode
Touchscreen	Multi-touch (projected capacitive)
System hardware	
Processor	Intel® Celeron® N2930 Processor; 2M Cache up to 2.16 GHz, 7.5 W maximum TDP
Cores / speed	4 / 1.83 GHz
Memory	On board 4 GB DDR3
Graphics / video	Intel HD graphics; DirectX 11.1, OpenCL/GL, and 4K videos Quick Sync encoder
Drives	
Mass storage	1 x 2.5" SATA (default: 32 GB SSD)
Secondary storage	1 x SD slot
Optical drives	Connection via USB port

Interface ports	
Ethernet	2 x Ethernet TCP/IP - RJ45
USB	3 x USB 2.0. 1 x USB 3.0
Serial	COM1: RS232/422/485, COM2: RS232, COM5: RS232
Audio	1 x Line-out
General features	
Operating system	Windows Compact 7, Windows Embedded 7 32/64-bit ; Windows Embedded 8
Current supply	24 V DC; 9.6 to 28.8 V, isolated
Bezel / housing	Aluminum die-casting
Mounting options	Panel / wall mount
Packages / bundles	Packages with Wonderware InTouch, ready-to-use HMI software (optional)
Environment   ambient conditions	
Degree of protection / thermal	Front: IP65; Rear: IP20 / Fanless
Electromagnetic compatibility	CE, FCC A, EN 61000-6-2, EN 61000-6-3, CISPR22, RoHS
Vibration during operation	Tested according to DIN IEC 60068-2-6: 10-500 Hz: 1G / 3 axis
Shock during operation	Tested according to DIN IEC 60068-2-27: 15G for 11 ms
Ambient temperature	0...50°C (32...122°F)
Relative humidity	10 to 90% at 40°C (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)	539 x 344.4 mm
Installation dimensions (W x H x D)	557 x 362 x 65 mm
Product weight (lb / kg)	25.3 / 11.5
Contractual warranty	
Period	12 months

# HMI-TCND0U-22AC-X00H

# Dimensions

Unit: mm

