

# HMI-TCNPOU-12AC-X00H

**12.1" HMI Panels with Industrial Multi-touch High performance, Intel® Core™ i3 Processor**



## Features and Benefits

- Industrial design for machine control and visualization
- High performance and extremely fast system response
- Multi-touch displays for innovative HMI and visualization
- Intel Core i3-4010U CPU, DDR3L-1600 memory up to 8GB
- Dual GbE ports for high data transmission and redundancy
- Pre-installed and activated 64-bit Windows Embedded OS
- Readily-available battery backup power supply module
- Rugged, compact and fan-less aluminum die-cast housing
- IP65 degree protection, resistant to shock and vibration
- Fan-less operation up to ambient temperatures of 50 °C
- UL listing and CB certificates, RoHS, FCC and CE compliant

## Introduction

AIS's 12.1" Compact Plus HMI panel is equipped with projected capacitive multi-touch screen displays that feature brilliant resolution (800 x 600, SVGA), high-brightness (450 nits), and 100% dimmable. The industrial HMI system offers compact all in one panel PC-based on embedded technology, featuring Intel® Core™ i3-4010U processor, DDR3L-1600 SDRAM of up to 8 GB, standard SD card slot, and Windows Embedded Standard 7 or Windows Embedded 8 Standard operating system for an efficient visualization and operation of machine applications.

## Specifications

Display	
Size in inches / resolution in pixels	12.1" / SVGA, 800 x 600
Brightness / luminance	450 nits / 450 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® Core™ i3-4010U Processor, 3M Cache, 1.70 GHz, 15 W maximum TDP
Cores / speed	2 / 1.7 GHz
Memory	On board 4 GB DDR3
Graphics / video	Intel® HD Graphics 4400: DirectX 11.1, OpenCL 1.2 and OpenGL 4.0, 4K videos Quick Sync encoder
Battery backup power	1950mAh Li-ion rechargeable battery (optional)
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 LAN ports (Power over Ethernet - optional)
USB	2 x U SB 2.0. 2 x USB 3.0
Serial	1 x RS232/422/485, 2 x RS232 (1 x RS232 w/ POE option)
Audio	1 x Line-out
General features	
Operating system	Windows Embedded 7 32/64-bit / Windows Embedded 8 (optional)
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)	303 x 229 mm
Installation dimensions (W x H x D)	319 x 245 x 51.7 mm
Product weight (lb / kg)	5.5 / 2.5
Contractual warranty	
Period	12 months

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# Dimensions

Unit: mm

