Tacton TC401

OnLogic Tacton TC401 Intel® 12th Gen All-in-one Panel PC

The Tacton TC401 panel PC is an easy to install touchscreen computer purpose-built for reliability in tough environments, with high-performance processing and versatile I/O that can be customized to the unique demands of your HMI application.

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Everything You Need, Nothing You Don't

Every automation, data visualization, HMI, kiosk, or transportation deployment is unique, so you need a panel PC solution that can be easily customized. But you also don't want to be locked in to paying for features you don't need. The TC401 provides powerful computing in a modular platform designed to scale with you.

Display Options For Every Application

From outdoor installations in direct sunlight, to food production facilities that require equipment to be sprayed clean, the Tacton TC401 has a display option to suit any deployment. Its modular design lets you match the compute capabilities with the screen size, brightness, and touch interface type you require.

Maximum Uptime, Minimal Frustration

The Tacton TC401 is engineered to thrive in challenging food production, manufacturing, factory automation, in-vehicle, and energy management environments so you can focus on your operations, not the reliability of your panel PCs.

- Intel 12th Gen Core Processing
- 2.5GbE TSN Capable LAN
- Available 4G LTE
- Industrial & Rugged Power Input Options
- ModBay Expansion
- Operating Temp: -20°C to 70°C
- Fanless Cooling
- VESA & Panel Mounting Solutions

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Data & Control at Your Fingertips

Food Production

With IP66 and IP69K rated screen bezels, resistive or capacitive touchscreens and a range of mounting options, Tacton is a perfect fit for food manufacturing applications that may require equipment, including HMI systems, to be regularly washed down.

Manufacturing & OEM

Tacton can be easily integrated into larger solutions, such as OEM products, or used on a manufacturing floor as a stand alone solution, making it an ideal HMI for a wide range of production environments.

Factory Automation

Modern automation solutions will benefit from Tacton's durable design, simple installation, and ease of integration with existing infrastructure, including accessible and physically secure connectivity to sensors and equipment.

Energy & Heavy Industry

Tacton is engineered specifically for harsh environments, with resistance to extreme temperatures, contaminant ingress, and shock & vibration. Available high brightness displays and optical bonding help enhance usability wherever it's installed.

In-Vehicle

Tacton has been tested to a range of shock and vibration standards to ensure reliability when deployed in vehicles or on other mobile systems. With built-in automotive ignition sensing, Tacton is ideal for installation on AGVs, dockside shipping machinery, or on forklifts.

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System

Processor	Intel 12th Gen Alder Lake-N Intel N97 Intel N200 Intel Atom x7425E (w/ Intel TSN, TCC support) Intel i3-N305
Processor Speed	Up to 3.8GHz (processor dependent)
Processor Cores	Up to 8 (processor dependent)
Graphics	Intel UHD Graphics for 12th Gen Intel® Processors up to 32EU
Memory	1x DDR5-4800 SO-DIMM up to 16GB total (In-Band ECC)
Number of Displays Supported	1x integrated Panel with optional size (12.1", 15.6" and 21.5") 1x DisplayPort out (Full-size, DP 1.4a)
Panel Size	12.1" 1920x800 (WXGA) 16:10 15.6" 1920x1080 (Full HD) 16:9 21.5" 1920x1080 (Full HD) 16:9 Standard Brightness, High Brightness, Resistive & PCAP touch options View angle 160 H°/ 160 V° (min)
Panel Display Integrated Peripherals	1x Camera & Mic (optional): 2MP CMOS sensor, supports 1080p and 720p @30fps 1x Proximity Sensor

Rear I/O

Power	4-Pin Terminal Block Power Input (12 ~ 24V DC) with Industrial Protections or 5-Pin Terminal Block Power Input (12 ~ 48V DC) Rugged Protections and Automotive Ignition Power Sensing
USB	2x USB 2.0 Type-A 2x USB 3.2 Gen 2 (10Gbps) Type-A
DIO	1x 12-pin Terminal Block 8-bit DIO w/ Remote Power Switch & Ignition Sensing
COM	1x RS-232/422/485 DB9 COM port 1x RS-232/422/485 COM
Ethernet	2x 2.5Gbe LAN w/ I226-IT controller and Intel TSN support
Display	1x Full size DisplayPort 1.4a
Audio	1x Intel HD Audio Out + Mic-In
Other	1 x OnLogic ModBays for I/O Expansion including 4x LAN, 3x M12 LAN, 2x COM, 4x USB 3.0 Type-A

Power Input

Source	12~24VDC or 12~48VDC
Wattage (processor and display dependant)	12.1": 40.1W nominal, 77.2W max (at 24VDC) 15.6": 43.2W nominal, 80.0W max (at 24VDC) 21.5": 41.4W nominal, 78.8W max (at 24VDC) (nominal = PCAP Std. Brightness with N97 processor and no peripherals)

Environmental & Regulatory

Environmental	System Operating Temperature: -20~70° C (panel dependent). Please refer to Appendix H in Manual Storage Temperature: -10~85° C Operating Humidity: 0% - 90% (non-condensing) Front Panel IP Rating: IP66/IP69K depending on model. Proper installation is required. See manual for more information. Back IP Rating: IP50
Shock Tolerance	Tested according to IEC 60068-2-27 and MIL-STD-810G (516.6)
Vibration Tolerance	Tested according to IEC 60068-2-64 and MIL-STD-810G (514.6)
Certifications	UL/IEC/EN 62368-1 (UL E490677) NRTL + CB UL/IEC/EN 60950-1(UL E490677) NRTL + CB FCC 47 CFR Part 15 Subpart B (Class A) CAN ICES-003(A) / NMB-003(A) (Class A) CISPR 32/35 & EN 55032/55035 Radio Equipment Directive (2014/53/EU) RoHS 3 (2015/863/EU) WEEE Directive (2012/19/EU) REACH & CMRT Compliant Immunity per ISO 7637-2 & ISO 16750-2 EN 50121-3-2 IEC 60601-1-2, 4th ed. IEC 60945, 4th ed. ETSI EN 301 489 (parts 1; 17; 52) ETSI EN 300 328 ETSI EN 301 893 ETSI EN 301 908 ETSI EN 300 440 EN 62311
Countries of Use	Certification Markings: FCC, CE, UKCA, CB, cULus, VCCI, RCM, RoHS 3, WEEE Coming soon: BSMI, BIS, NOM equivalency Available Countries (incl Wifi/BT) Americas: Canada, United States, Mexico* Asia: China, Hong Kong, Japan Australasia: Australia & New Zealand Europe: Austria, Belgium, Bulgaria, Croatia, Czech Republic, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Liechtenstein, Luxembourg, Malta, Norway, The Netherlands, United Kingdom, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden Coming soon: Taiwan, India, Saudi, UAE Colocation approved countries (Wifi/BT + LTE): USA, CA, EU, UK, AUS/NZ Other countries available, please call. *: Limitations apply

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Mechanical

Dimensions (WxHxD)	12.1": 309.0 x 225.4 x 94 mm (WxHxD) 12.17 x 8.87 x 3.70 in (WxHxD) 15.6" : 394.8 x 259.4 x 96 mm (WxHxD) 15.54 x 10.21 x 3.78 in (WxHxD) 21.5" : 528.2 x 335.3 x 99 mm (WxHxD) 20.80 x 13.20 x 3.90 in (WxHxD)
Case Type	Fanless
Case Material	Aluminum & Steel
Weight	System with no panel: ~1.20 kg / 2.65 lbs System with 12.1" panel: ~3.6 kg / 8.0 lbs System with 15.6" panel: ~5.0 kg / 11.1 lbs System with 21.5" panel: ~ 8.2 kg / 18 lbs
Mounting Options	Panel VESA
Expected Life Cycle	5 Years from launch
Hardware Type	Edge Devices and IoT Gateways

Expansion & Features

Expansion Options & Storage	1x M.2 2280/2260 M-key (PCIe Gen 3 x1/ SATA III) 1x M.2 2280/3042/3052 B-Key (PCIe Gen 3 x1, USB 3.2, USB 2.0) 1x M.2 2230 E-key (Wi-Fi) (PCIe x1/ USB 2.0) 3FF-Sim slot (Mapped to the B-Key)
Features	User-Programmable OnLogic Microcontroller (MCU) Automotive Ignition Power Sensing Onboard TPM 2.0 module (Infineon SLB9672)

Other

Warranty	2, 3, or 5 Years

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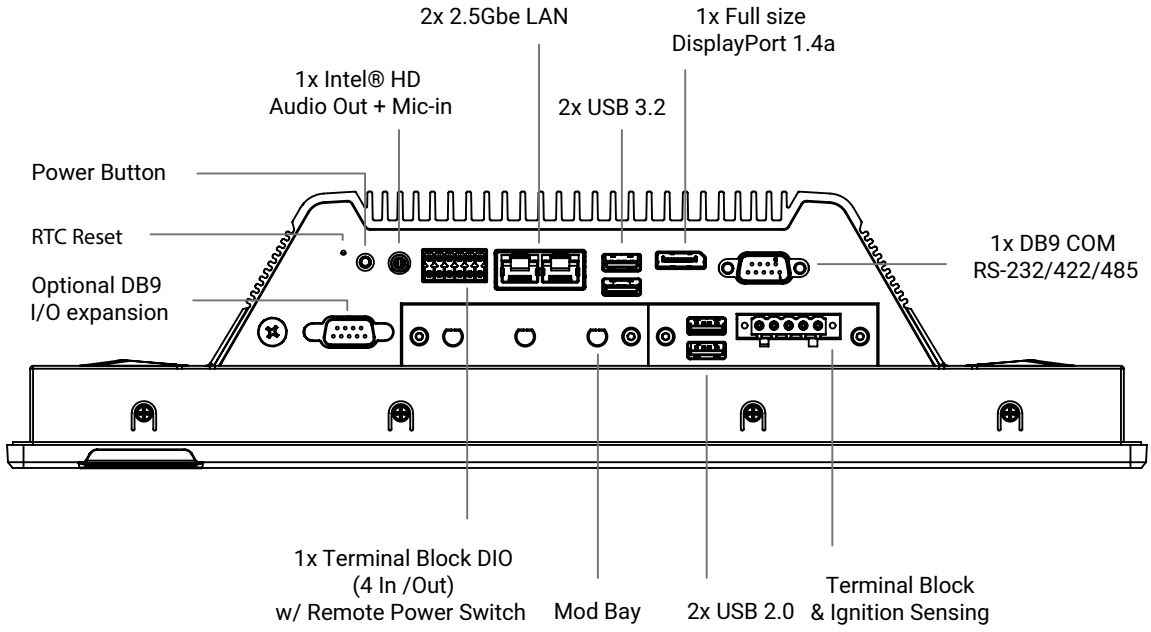
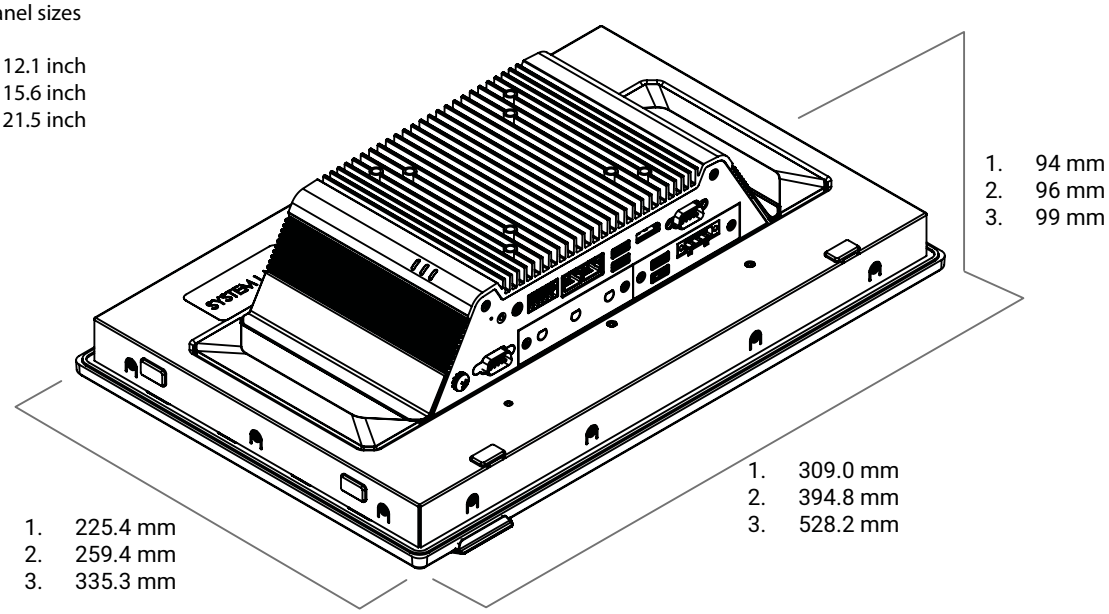
All measurements in mm



Panel sizes

1. 12.1 inch
2. 15.6 inch
3. 21.5 inch



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