ONLOGIC TC401 Gen All In One Panel PC Installation Guide

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ONLOGIC TC401 Gen All In One Panel PC

Product Information

Specifications

- **Processor:** Intel 12th Gen Core Processing
- **Network:** 2.5GbE TSN Capable LAN
- **Connectivity:** Available 4G LTE
- **Input Options:** Industrial & Rugged Power Input
- **Expansion:** ModBay Expansion
- **Cooling:** Fanless Cooling
- **Mounting:** VESA & Panel Mounting Solutions

Product Usage Instructions

- The Tacton TC401 offers display options suitable for various applications. Choose the screen size, brightness, and touch interface type that best suits your needs.
- Designed for tough environments, the TC401 ensures reliability in challenging settings like food production, manufacturing, and factory automation. Focus on your operations with minimal worry about panel PC performance.
- Whether in food production, manufacturing, factory automation, energy management, or in-vehicle applications, the TC401 provides a reliable touch interface for your HMI needs. Its modular design allows for easy integration and customization.

FAQ

- **Q:** What are the screen bezel ratings for food production environments?
- **A:** The Tacton TC401 features IP66 and IP69 K-rated screen bezels, making it suitable for food manufacturing applications requiring regular washdowns.
- **Q:** Is the TC401 suitable for use in vehicles?
- **A:** Yes, the TC401 has been tested for shock and vibration standards, making it ideal for installation in vehicles or other mobile systems.
- **Q:** Can the TC401 be integrated into existing automation solutions?

- **A:** Absolutely, Tacton's durable design and ease of integration make it suitable for modern automation environments.

Everything You Need, Nothing You Don't

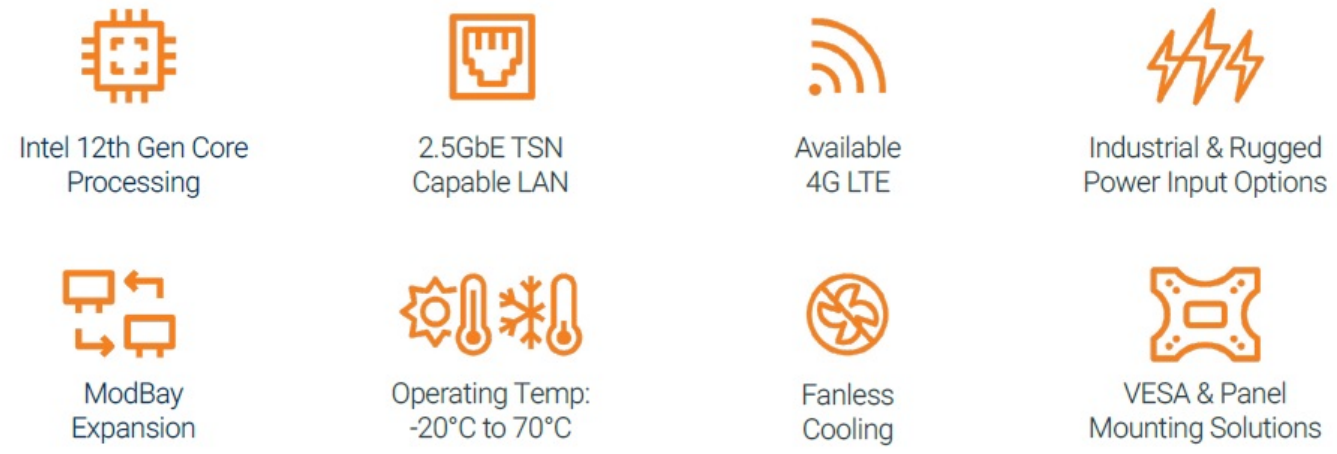
Every automation, data visualization, HMI, kiosk, or transportation deployment is unique, so you need a panel PC solution that can be easily customized. But you also don't want to be locked into paying for features you don't need. The TC401 provides powerful computing in a modular platform designed to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



Data & Control at Your Fingertips

Food Production
With IP66 and IP69 K-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.

System

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 o ut (Full-size, DP 1.4a)
Panel Size	12.1” 1920×800 (WXGA) 16:10 15.6” 1920×1080 (Full HD) 16:9 21.5” 1920×1080 (Full HD) 16:9 Standard Brightness, High Brightness, Resistive & PCAP touch options View angle 160 H°/ 160 V° (min)
Panel Display Integrated Perip herals	1x Camera & Mic (optional): 2MP CMOS sensor, supports 1080p and 720p @3 0fps 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 & 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 the model. Proper installation is required. See the 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 For other countries available, please call. *: Limitations apply

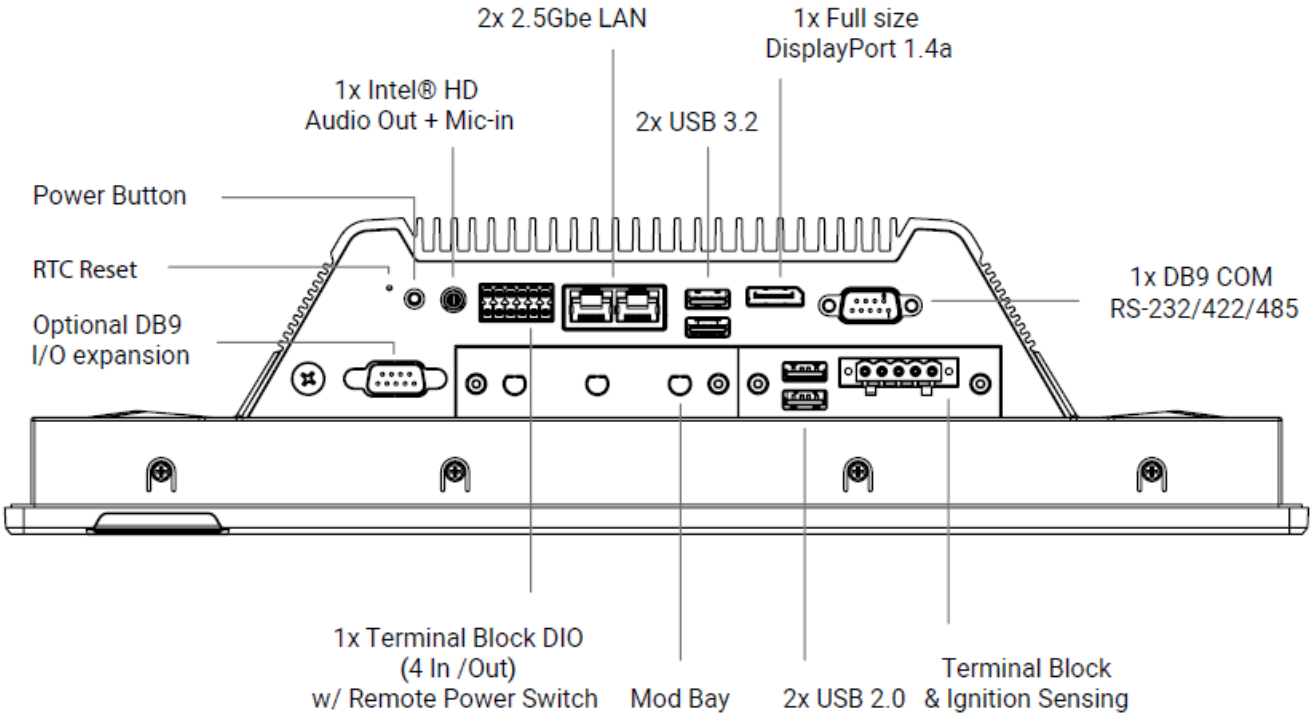
Mechanical	
Dimensions (WxHxD)	12.1”: 309.0 x 225.4 x 94 mm (WxHxD) 12.17 x 8.87 x 3.70 in (WxHxD) 15.6” : 394.8 x 259.4 x 96 mm (WxHxD) 15.54 x 10.21 x 3.78 in (WxHxD) 21.5” : 528.2 x 335.3 x 99 mm (WxHxD) 20.80 x 13.20 x 3.90 in (WxHxD)
Case Type	Fanless
Case Material	Aluminum & Steel
Weight	A system 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 the launch
Hardware Type	Edge Devices and IoT Gateways

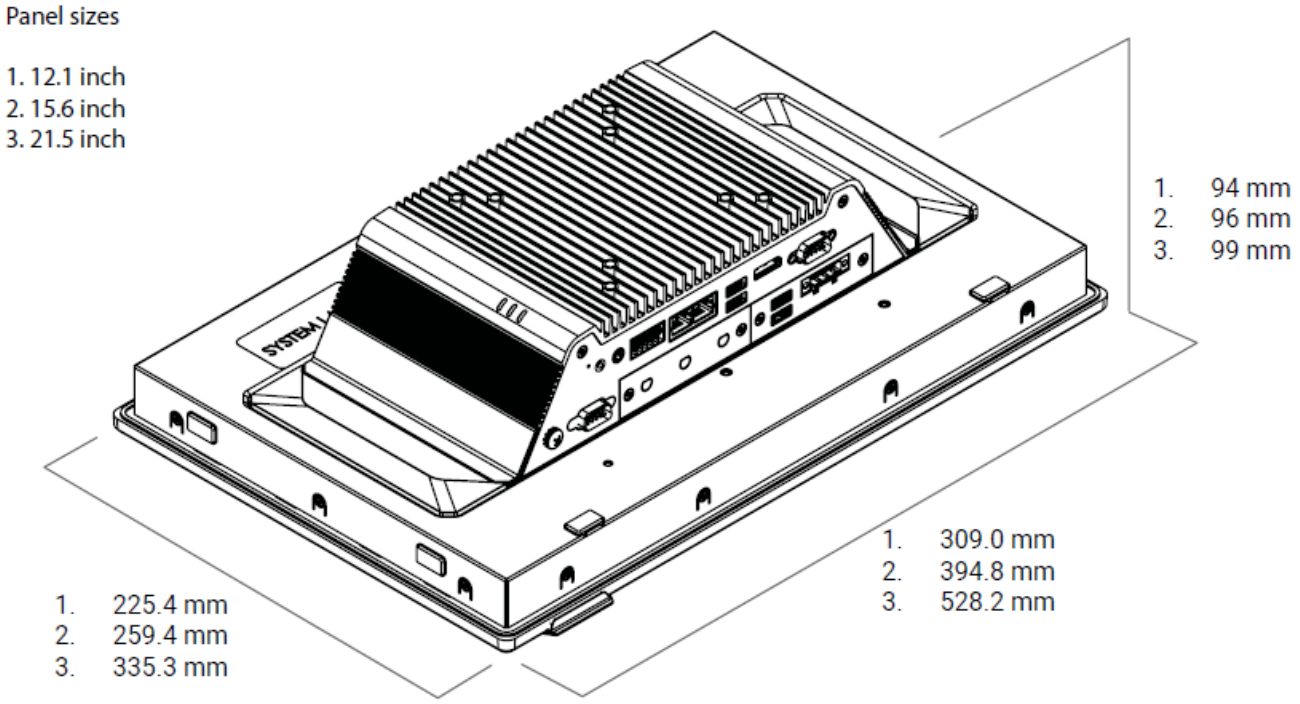
Expansion & Features	
Expansion Options & Storage	1x M.2 2280/2260 M-key (PCIe Gen 3 x1/ SATA III) 1x M.2 2280/3042/3052 B-Key (PCIe Gen 3 x1, USB 3.2, USB 2.0) 1x M.2 2230 E-key (Wi-Fi) (PCIe x1/ USB 2.0) 3FF-Sim slot (Mapped to the B-Key)
Features	User-Programmable OnLogic Microcontroller (MCU) Automotive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

Other	
Warranty	2, 3, or 5 Years

Tacton TC401

- Intel 12th Gen All-in-one Panel PC
- All measurements in mm





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Documents / Resources

	**ONLOGIC TC401 Gen All In One Panel PC** [pdf] Installation Guide TC401 Gen All In One Panel PC, TC401, Gen All In One Panel PC, In One Panel PC, One Panel PC, Panel PC, PC

References

- onlogic.com
- User Manual