Model: TPC-7185W

18.5" Multi-Touch AI Panel PC with Intel® Core™ Ultra 5 / 7 Processor





Main Feature

- LED Panel - Higher Brightness; Longer Life Span; Better Viewing Angle; Less Power Consumption …
- 18.5" Full HD LED Panel support 1920 x 1080 pixels
- Intel® Core™ Ultra 5 / 7 Processor
- 8mm Aluminum Magnesium Alloy front bezel
- NEMA4 / IP 65 compliant front panel, with rugged construction design
- Front flat glass (7H Hardness) with projected capacitive Multi Touch Screen
- Supports 10 points multi-touch in Windows 7/8.1/10/ 11…
- 4 x RS232/485, auto flow control - for RS485)
- (Optional - WIFI) Mini PCI-E WIFI Module with Antenna
- Panel (Flush) mounting with clip

Application:

- Factory Automation, Processor Automation, Power Generation, Marine / Offshore Industrial, Kiosk …

Specification	
Product Model	**TPC-7185W**
Processor	Intel® Core™ **Ultra 5 125H** (14 x Cores, 4.5GHz, NPU AI boost TOPS (Int8) 11) Intel® Core™ **Ultra 7 255H** (16 x Cores, 5.1GHz, NPU AI boost TOPS (Int8) 13)
GPU & NPU	Intel® Arc™ graphics / Intel® Arc™ 140T GPU & Intel® AI Boost
Memory	2 x DDR5 SO-DIMM Socket up to 96GB
Storage	1 x M.2 2280 NVME (PCIe 4.0) and 1 x mSATA
Display	Display Type : 18.5"Full HD **LED Panel** LCD Resolution : 1920 x 1080 Luminance : 350 nit View Angel : 170° (H), 170° (V)
LAN	3 x Intel® i210 / i211 GbE LAN
USB port	4 x USB 3.0/2.0 and 2 x USB 2.0
Display output	Intel® HD Graphics HDMI output
COM port	4 x RS232/485, RS-485 supporting auto flow control
Expansive interface	1 x Mini PCI-E (full size, Support Wi-Fi & Bluetooth module)
Back panel I/O port	3 x RJ45, 4 x USB 3.0/2.0, 2 x 2.0, 1 x HDMI, 4 x RS232/485, 1 x Power

	Switch, 8 x DI & 8 x DO, DC input terminal (12-24VDC)
Supporting OS	Windows 11; Linux; Real-time operating system (RTOS) such as VxWorks, INtime…
Touch Screen	Internal USB interface controller - Projected Capacitive Multi Touch (10 points) Light transmission: 85% or more Surface hardness : 7H Operation system : DOS; Windows XP / 7 / 8.1 / 10 / 11; Linux
Wireless LAN (optional)	MINI PCI-E WIFI Module with Antenna
Construction	Heavy duty steel and aluminum front panel
Environment	Operating temperature: -10 °C to 60 °C Storage temperature: -20 °C to 80 °C Storage humidity: 10% to 90% non-condensing Vibration operate SSD: 3 Grms, IEC 60068-2-64, random, 5~500 Hz, 1 hr/axis Shock operate SSD: 30 G, IEC 60068-2-27, half sine, 11 ms duration
Compliance	CE; FCC; ROHS
Dimension W x H x D (mm)	480 x 304 x 74
Ordering Information	
TPC-7185W	18.5" Multi-Touch AI Panel PC with Intel® Core™ Ultra 5 125H Processor
(Optional) Intel Processor	Upgrade to Intel® Core™ Ultra 7 255H Processor
(Optional) AC to DC Adapter	12VDC/120watt Power Adapter, input 110-240VAC
(Optional) RAM	8 to 96GB DDR5 SO-DIMM RAM
(Optional) SSD / HDD	128GB to 4TB SSD
(Optional) OS	Windows 11 Professional or 11 IoT Enterprise , Linux …

Structure Diagram (Panel cut-off dimension: 463 x 287mm)

