



POLYTAB: 11.6" Modular Industrial Panel Based on Intel® Core™ i5-1235U CPU

Main Features:

- Powered by Intel® Core i5-1235U processor (10 cores, up to 4.4 GHz)
- 11.6 inches 10-point capacitive touch panel
- 2 x COM, 2 x 1000M Ethernet ports, 2 x HDMI OUT
- 4 x USB 3.2, 1 x SATA 3.0 FPC, 3 x M.2



Description:

Designed for industrial automation, edge computing, and harsh environments, this product combines high-performance computing with rich expansion capabilities. It is powered by the 12th Gen Intel® Core™ i5-1235U processor and onboard high-speed LPDDR5 memory, delivering strong performance with low power consumption. The fanless full aluminum chassis supports a wide operating temperature range of -20°C to 60°C, ensuring reliable 24/7 operation in dusty, vibration-prone, and extreme temperature conditions.

With this robust performance and industrial-grade design, it is widely used in industrial control and automation, intelligent power management, CNC equipment manufacturing, environmental monitoring, pharmaceutical equipment, food packaging machinery, machine vision inspection, wind power monitoring, and other industrial fields.

Specification:

System

CPU	Intel® Core™ i5-1235U. 10 cores (2 P-cores with up to 4.4GHz, 8 E-cores up to 3.3GHz), 12 threads, and 12MB Intel® Smart Cache
Memory	Onboard LPDDR5-5200Mb/s, 8GB/16GB
Storage	UFS Flash support (optional)
BIOS	AMI UEFI BIOS
Operating System	Win10/11 64bit, Linux 64bit

Video and Audio

Display	11.6" 1366 x 768 10-point capacitive touch panel
Audio	SenaryTech SN6186 High-denition Audio Codec

Front I/O

Power Switch	1 x Power Switch
Audio	1 x CTIA 2-in-1 Audio Jack, supports Line-out + Mic-in and power amplifier
Ethernet	2 x RJ45 Gigabit Ethernet ports (10/100/1000 Mbps)
USB 3.2	4 x USB 3.2 Gen2 10Gbps
Display	2 x HDMI2.0
Power Supply	1 x DC-IN (2-pin Phoenix Connector)
COM	2 x RS232 (COM1-2)

Rear I/O

Antanna Hole	1 x antenna hole for WiFi&BT external antenna
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Internal Interfaces

	1 x M.2 Key B slot for 2242/2280 SATA SSD/3042 4G Module
M.2	1 x M.2 Key M slot for 2280 NVMe SSD
	1 x M.2 Key E slot for 2230 Wi-Fi&BT Module, supports PCIe&CNVi
SATA	1 x SATA3.0 FPC interface
Slot	1 x MicroSIM card slot

Power Supply & Functions

Power Adapter	9V~36V; 2-pin DC-IN Phoenix Connector
Auto Power On	Support
Wake On LAN	Support

Mechanical and Environmental

Material	Aluminum alloy (Blue and Black color for options)
Dimension	261 x 136 x 39mm
Cooling	Cooling fin, fanless
Mounting	VESA mounting
Operating Temp.	-20°C~60°C
Storage Temp.	-40°C~80°C

Industrial Panel Photos:



Back-end Computer Photos:



ABOUT POLYHEX

As a board level and system level designer and manufacturer, Polyhex, with 9-year experience, always delivers best-in-class embedded computing solutions based on both ARM and X86 architecture, including hardware customization and software debugging etc. Partnered with silicon vendors like Intel, NXP, ST, Rockchip, Allwinner and so on, we have earned trust from clients worldwide in over 30 countries. Polyhex is also certified with ISO9001 and ISO13485 for the self-owned manufacture facility.

