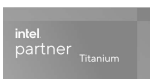
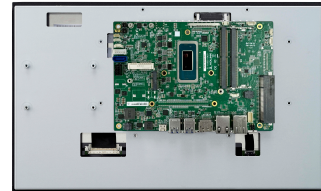
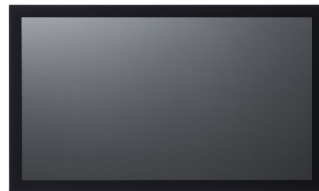


SP2-MTL Series

14th Gen Intel® Core™ Ultra -
based Open Frame Computer

Preliminary



Features

- Intel® Core™ Ultra H series (Meteor Lake) processor
- 10.1"/15.6"/21.5" Projected capacitive touch screen
- 3 independent display output, LVDS, DP, USB type C
- DDR5 -6400 up to 64GB
- 2.5" SSD SATA 6 Gbps Gen3.2
- 7x USB, 1x Thunderbolt™ ports
- Support NVIDIA MXM GPU type A by carrier board (optional)
- Support PoE by extension module (optional)
- 1x M.2 2230 A/E key slot
- 1x full size mPCIe slot
- 12V DC in (Standard), 9-36V DC (Optional)
- EMC Certificated, Safety Compliance

Software Support

- Windows 11

Optional Accessories

- Adapter: 12V 60W power adapter
- I/O Cables: Power/Reset, I2C, DI/O, speaker, MIC in/Line out, COM port, and USB cables
- Wireless Kit: Wi-Fi module

Ordering Information

- SP2-10WP-MTL-125H
10.1" Intel® Core™ Ultra open frame computer
- SP2-15WP-MTL-125H
15.6" Intel® Core™ Ultra open frame computer
- SP2-21WP-MTL-125H
21.5" Intel® Core™ Ultra open frame computer

Specifications

Model	SP2-MTL Series
System	
Processor	Intel® Core™ Ultra U/H series (Meteor Lake) processor
Memory	2x DDR5 -6400 up to 64GB (Standard: 8G)
Storage	M.2 2280, NVMe (1x 4 PCIe gen 4) and SATA (Standard: 128GB SSD, up to 1TB)
Security	TPM 2.0 (Optional)
Display and Touch	
Size	10.1"/15.6"/21.5"
Resolution	1280 x 800 (10.1") / 1920 x 1080 (15.6", 21.5")
Contrast Ratio	800:1 (10.1") / 1000:1 (15.6", 21.5")
Brightness	400 cd/m2 (typ) (10.1", 21.5") / 420 cd/m2 (typ) (15.6")
Backlight Life (Hrs)	50,000
Viewing Angle (U/D/R/L)	89/89/89/89
Touchpoint	10 points
Touchscreen Type	Capacitive touch screen, Glass/Glass, Resistive Touch Screen (customize)
Surface Hardness	7H
Surface Treatment	AG
External I/O	
Ethernet	2x GbE port, RJ45 connector, 1x 1G, 1x 2.5G TSN, support wake on LAN PoE module
USB Port	4x USB3.2, gen1, 5 GT/s, OCP, 1600 mAh
DisplayPort	1x DP 1.4, 1x Mini DP (Optional)
Buttons	Optional: 1x 32 Physical keys, 1x Control keys, System reset & Power button (with 1 x Power LED)
Internal I/O with Wire-to-Board Connectors	
Serial Port	1x RS485, with auto flow control (default) 1x RS-232/422/485 programmable, auto flow (Optional)
I2C	2x for I2C client, wafer
Audio (optional)	1x for stereo speaker (2 watts), 1x Mic-in (Mono) and Line-out (Stereo), 1x buzzer
CAN	1x CAN Bus, wafer
M.2	1x 2230 A/E key for WiFi/Bluetooth
Expansion IO (Optional)	1x USB 3.2 Gen1 (5Gbps), 1x I2C, 1x SPI, 4GPI&4GPO
Power	
Power Input	12V (default) or 9-36V (optional)
Power Connector	1x 2.5 Φ DC Jack (default) or 4-pin power connector (optional)
Backup Battery	1x RTC battery
Environmental	
Operating Temperature	0°C ~ 60°C / -20°C ~ 60°C
Storage Temperature	-20°C ~ 70°C
Humidity	40°C, 95%
Vibration	OP 1 Grms, 5-500Hz (Refer to IEC60068-2-64) X, Y, Z axes, 60 min/axis
Shock	OP 30G peak acceleration (Half-Sine), Pulse Duration: 11ms (Refer to IEC60068-2-27), ±X, ±Y, ±Z, 3 shocks/axes
ESD	Air: ±15kV, Contact: ±8kV
Software	
Operating System	Windows 11
Mechanical	
Construction	SGCC
Dimension (H x W x D)	TBD
Weight (without rear cover)	TBD
Mounting kit (optional accessories)	1) Panel Mounting 2) Rear cover 3) VESA bracket