

# SHIELD-215-U

## IEI Stainless Steel Industrial Panel PC

Powered by Intel Meteor Lake Processor

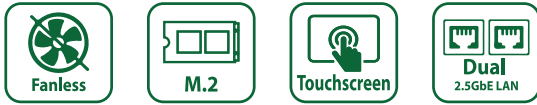


[www.ieiworld.com](http://www.ieiworld.com)



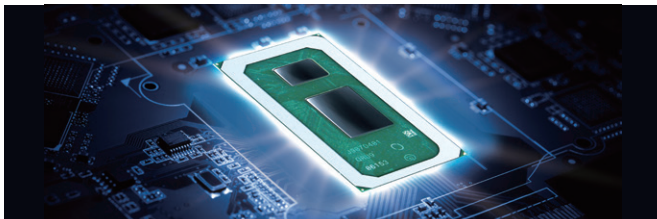
# SHIELD-215-U

Stainless Steel Panel PC equips Intel Meteor Lake Processor , Preinstalled with 16GB SO-DIMM DDR5, PCAP touch, 10~28V DC, 304 Stainless Steel Chassis, Full body IP69K Rated With Water-Proof Connectors.



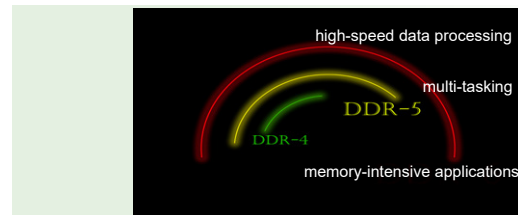
## Excellent processor performance

Meteor Lake is Intel's new-generation mobile processor platform (Core Ultra 100 series). It features a disaggregated, tile-based design using Intel Foveros 3D packaging, combining Performance-cores and Efficient-cores (Crestmont) to deliver improved performance per watt. It also integrates an NPU to accelerate AI workloads while maintaining high energy efficiency.



## Next Gen high-speed memory

Compared to DDR4, DDR5 has the advantage of its wider bandwidth and lower power consumption, supporting high-speed data processing, multi-tasking, and memory-intensive applications.



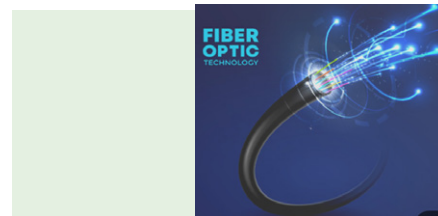
## Comprehensive stainless steel solutions

The Shield Series features a corrosion-resistant 304 stainless steel housing with fully waterproof ports. And it has longer life cycle and lower maintenance costs



## High-Speed Transmission Optical Fiber Module

Optical fiber can support ultra-large bandwidth to meet high-speed transmission requirements. Effectively reduce signal attenuation enabling high-quality transmission over long distances.



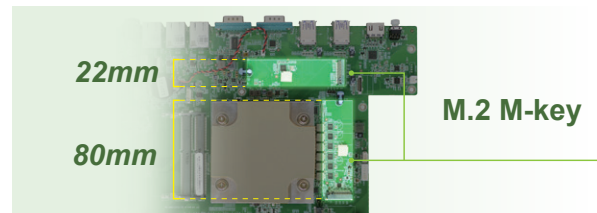
## Seamless Connections

SHIED series is all equipped with M12/M20 waterproof connectors with easy installation. Providing seamless and stable signal transmissions.

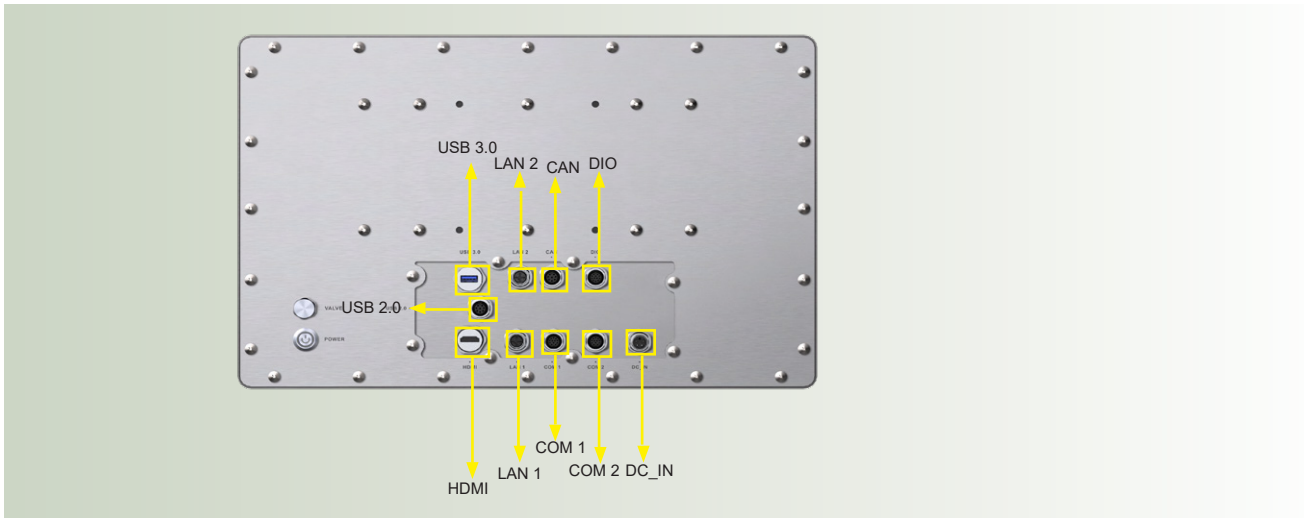


## Multiple M.2 Expansions

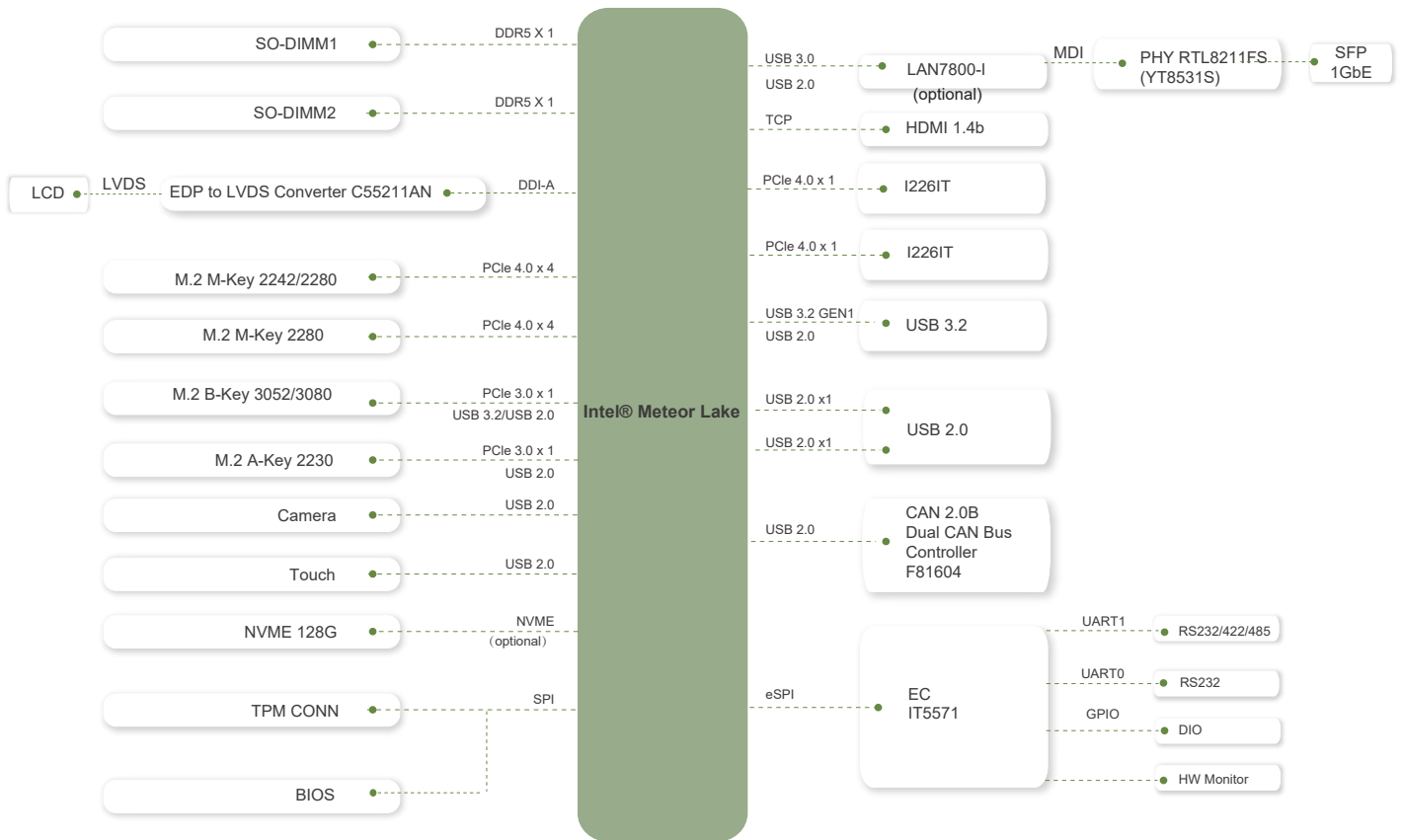
SHIELD series features various M.2 expansion slots, providing users with flexible expansion space for different application scenarios.



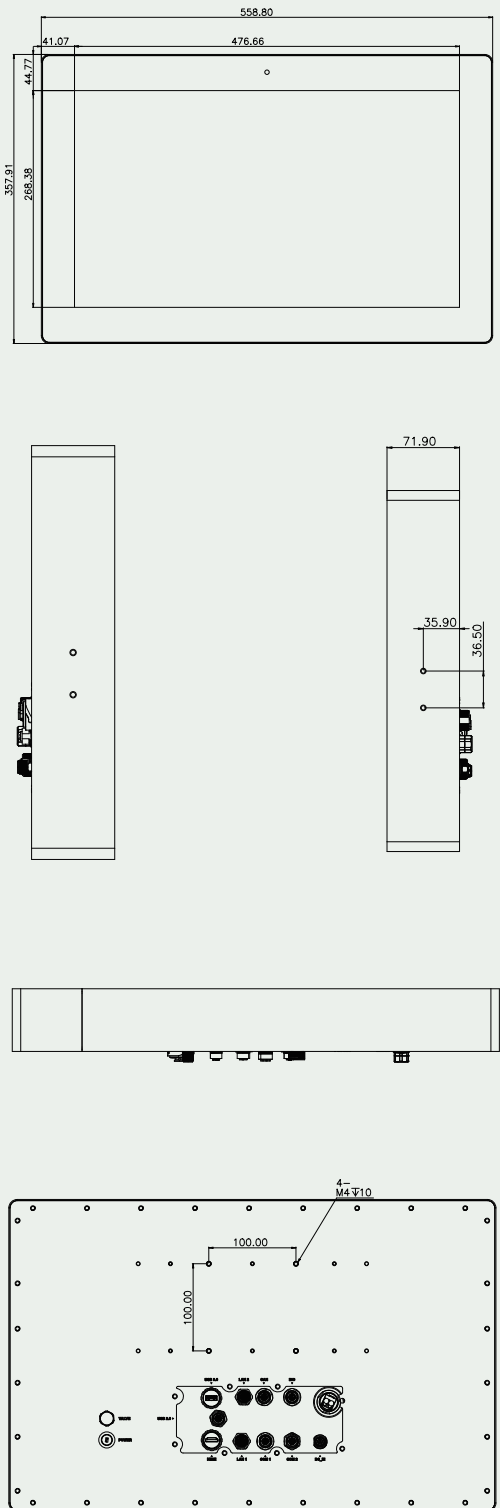
## Fully Integrated I/O



## Block Diagram



## Dimensions (Unit: mm)



## Specifications

Model	SHIELD-215-U
LCD Display	21.5"
Resolution	1920 (W) x 1080 (H)
Brightness	500 cd/m <sup>2</sup>
Contrast Ratio	1000:1
LCD Color	16.7M
Pixel Pitch (mm)	0.248 (H) x 0.248 (V)
Viewing Angle (H-V)	178°/178°
Backlight MTBF	50000 hours
Touchscreen	Multi-point projected capacitive type (anti-UV / anti-glare coating, support gloves) Surface hardness: ≥7H
Touch Controller	Projected capacitive type: ILI2521
CPU (SoC)	Intel® Meteor Lake Ultra 5 processor 125U Intel® Meteor Lake Ultra 7 processor 155U
Memory	2 x SO-DIMM DDR5-4800 up to 96GB (Pre-installed 16GB)
Ethernet	2 x 2.5GbE LAN via Intel I226-IT
Storage	1 x M-Key 2280 (PCIe Gen4 x4) for M.2 SSD 1 x 128GB eMMC ( optional )*
Expansion slot	1 x M.2 M-Key 2242/2280 (PCIe Gen4 x4) 1 x M.2 B-Key 3052/3080 (PCIe Gen3 x1 + USB 3.2 x1) 1 x NANO-SIM 1 x M.2 A-key 2230 (PCIe Gen3 x1 + USB 2.0 x1)
Camera	1 x Camera (Wide-viewing angle)
External I/O Interface	M12 Waterproof Connector for 2 x RJ-45 2.5GbE LAN M12 Waterproof Connector for 1 x RS-232(with 2.0 kV isolation) M12 Waterproof Connector for 1 x RS-232/422/485(with 2.0 kV isolation) M12 Waterproof Connector for 1 x CANBUS(with 2.0 kV isolation) M12 Waterproof Connector for 1 x 8bit DIO (Isolator) (with 1.6 KV isolation) with SMBus M12 Waterproof Connector for 1 x USB2.0 M20 Waterproof Connector for 1 x USB3.0 M20 Waterproof Connector for 1 x HDMI 1.4b Waterproof Connector for Power switch M12 Waterproof Connector for DC Input Power
Construction Material	304 Stainless Steel Chassis
Mounting	VESA Mount 100 x 100 / Pole Mount / YOKE Mount
IP Rating	Fully IP69K
Power Input	DC 10~28V
Operating Temperature(with airflow)	-10~55°C @50%RH
Storage Temperature	-40°C~70°C
Humidity	10 to 90%RH @ 40°C, non-condensing
Safety and EMC	CE/FCC
OS	Windows 10/11 IoT Enterprise 64-bit Linux
Dimensions(H x W x D) (mm)	558.8 x 357.91 x 71.9
Weight(Net/Gross)	11.3/16Kg

\*Based on project discussion, it might have MOQ criteria. Please contact with Sales Account.

## Ordering Information

SHIELD-215-U5AD-R10	21.5" 500cd/m <sup>2</sup> 1920x1080 Panel PC with Intel® Core™ Ultra 5 processor 125U , Preinstalled with 16GB DDR5, PCAP touch, 10~28V DC, 304 Stainless Steel Chassis, Full Body IP69K Rated With Water-Proof Connectors , R10
SHIELD-215-U7AD-R10	22.1" 500cd/m <sup>2</sup> 1920x1080 Panel PC with Intel® Core™ Ultra 7 processor 155U , Preinstalled with 16GB DDR5, PCAP touch, 10~28V DC, 304 Stainless Steel Chassis, Full Body IP69K Rated With Water-Proof Connectors , R10

## Packing List

1 x Power Cable	1 x USB2.0 Cable	1 x LAN Cable
-----------------	------------------	---------------

## Options

Item	Part No.	Length	Description
LAN cable	32013-007300-100-RS	1000mm	M12 X code 8pin Male to RJ45 Female
USB 2.0 cable	32001-033000-100-RS	1000mm	M12 A code 8pin Male to USB Type-A female X2
DIO cable	32031-000700-100-RS	1000mm	M12 A code 12pin Male to HDB15 Male
COM cable	32005-006300-100-RS	1000mm	M12 A code 9pin Male to DB9 Male
CAN cable	32005-006400-100-RS	1000mm	M12 A code 8pin Male to DB9 Male
USB3.0 cable	32001-033200-100-RS	1000mm	waterproof Type-A Male to USB3.0 Type-A female
HDMI CABLE	32012-003800-100-RS	1000mm	waterproof Type-A Male to HDMI Type-A female)
Item	Part No.	Quantity	Description
YOKE MOUNT	41320-0594C0-00-HF	1	Yoke Mount Bracket
SCREW	44040-050161-HF	2	M5*16 Pan Head Machine Screw
	44030-050121-HF	2	M5*12 Round Head Machine Screw
iuOF-1G1PW-WF-R10	70-034SB104-001-100-RS	1	IEI 1G USB optical fiber Module