

### Features

- 12.1" Food Industrial Panel PC
- 8th Gen. Intel Core i3/i5, CPU built-in
- 1 x 260-pin SO-DIMM DDR4 slot, up to 32GB 2400MHz
- Flat Front Panel Touch Screen with IP66/IP69K Front Bezel
- SUS304 Stainless Steel (option SUS316L)
- DC 9~36V Wide Range Power Input
- Support TPM 2.0 Hardware Security

### Specifications

System	
CPU	Onboard 8th Gen Intel Core i3-8145UE Processor (2C/4T,2.2GHz) Intel Core i5-8365UE Processor (4C/8T,1.6GHz)
System Chipset	SoC
Memory	1 x 260-pin SO-DIMM up to 32GB DDR4 2400MHz
TPM	TPM 2.0
IO Port	
USB	4 x USB 3.0 type A 1 x DB-9 connector, Including: * 1 x RS-232(RTS, Rx, Tx, CTS), pin1 RTS/5V/12V selectable via jumper (COM1) * 1 x RS-232(Tx, Rx)/422/485(COM2) by Y Cable
Serial / Parallel	
LAN	2 x GbE LAN RJ-45
Audio	1 x Line-out
DP	1 x DP
Power	1 x 3-pin Terminal Block Connector 1 x 2-pin Power Switch Connector
Option	VESA Stand 4G LTE/Wi-Fi 4/5/6+/Bluetooth 4 x USB 2.0 type A (TB-528U4) 4 x USB 2.0 type A + 1 x Mini-PCle + 1 x SIM slot (TB-528U4ME1) 2 x COM (RS-232) (TB-528C2) 1 x COM (RS-232) + 2 x USB 2.0 (TB-528C1U2) 1 x COM (RS-232) + 2 x USB 2.0 + 1 x Power Button (TB-528C1U2P1) 2 x COM (RS-232) + 1 x Mini-PCle slot + 1 x SIM slot (TB-528C2ME1) 2 x COM (RS-422/485, isolated) (TB-528C2I) 2 x CAN (TB-528CAN2) 1 x LAN + 2 x USB 2.0 (TB-528E1U2) 1 x LAN(45W isolated PoE PD) + 2 x USB 2.0 type A (TB528E1U2UPOE)* Backup Battery 21W/10.8V/1.95Ah(3S1P) (TB-528 Series or backup battery only be in either one)

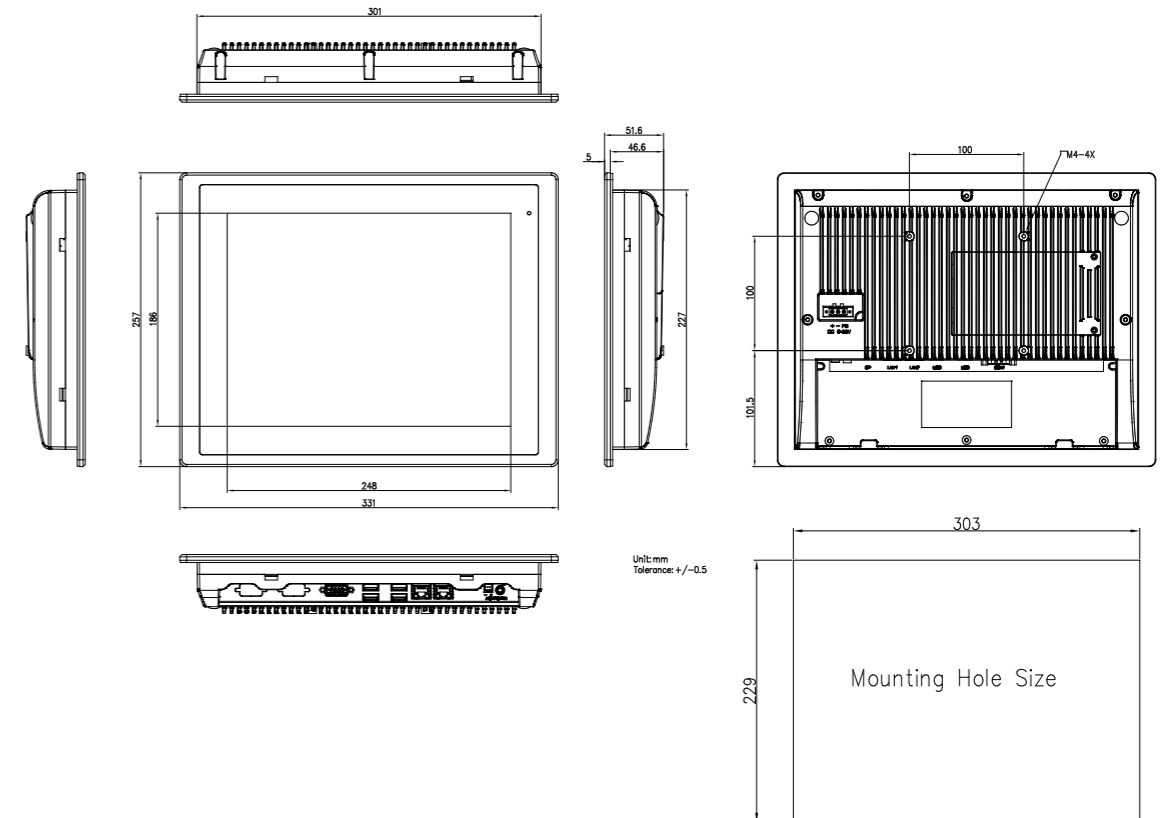
Storage Space	
Storage	1 x M.2 M-Key slot (Support PCIe/SATA3; 2242/2280, Default 2242)

Expansion	
Onboard Expansion Bus	1 x Mini-PCle slot (full size), 1 x Nano SIM Card Holder

Display	Standard		High Brightness Optional	
	default	optional	default	optional
Display Type	12.1" TFT-LCD		12.1" TFT-LCD	
Max. Resolution	800 x 600	1024 x 768	800 x 600	1024 x 768
Max. Color	16.7M	16.2M	16.7M	16.2M
Luminance (cd/m <sup>2</sup> )	450	500	1000	1000
View Angle	176(H)/176(V)	178(H)/178(V)	176(H)/176(V)	178(H)/178(V)
Contrast	1000:1	1000:1	1000:1	1000:1
Backlight Lifetime	50,000 hrs	30,000 hrs	50,000 hrs	70,000 hrs

Touch Screen	
Type	Projected Capacitive Touch (for BP model) Resistive Touch (for BR model)
Interface	USB
Light Transmission(%)	Resistive Touch: 80% / Projected Capacitive: 90%

### Dimensions



Power	
Power Input	DC 9~36V
Power Consumption	FABS-912BP/R: 56W

Mechanical	
Construction	SUS304 Stainless Steel Front Bezel (default) SUS316L Stainless Steel Front Bezel (for option) Aluminum Die-casting Back Cover
Mounting	Panel Mount, VESA Mount 100 x 100
IP Rating	IP66/IP69K Compliant Front Bezel
Dimensions	331 x 257 x 51.6 mm
Net Weight	3.5 kg

Environmental	
Operating Temperature	0~50°C / -20~60°C (option)
Storage Temperature	-30~70°C
Humidity	10 to 95%@ 40°C, non-condensing
Certificate	CE/FCC Class A / EN 1672-2 Compliant for P Model (optional)

Operating System Support	
Windows 10 IoT, Windows 11 IoT	

Ordering Information	
FABS-912BR	12.1" SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.
FABS-912BP	12.1" SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.
FABS-912BR(H)	12.1" High brightness SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Resistive touch screen, 9~36V DC input with adapter, Aluminum chassis.
FABS-915BP(H)	12.1" High brightness SVGA/XGA fanless HMI barebone with Intel 8th Gen. Core i3-8145UE/i5-8365UE, 1 x DDR4 slot, Projected Capacitive touch, 9~36V DC input with adapter, Aluminum chassis.

\*PoE limitation: CPU turbo off, rear I/O no loading, 70% LED backlight, PSE cable length < 50m