



23.8" Wall-mouted Panel PC (10th)

- High performance, fan-less 10th generation Intel® Core™
- Rich interfaces, 4 serial ports, 6 USB ports, 2 network ports, expandable
- Capacitive touch screen, wide voltage design, support 12-24V wide voltage input
- Industry-leading ultra-narrow edge design
- Front 3mm physically toughened explosion-proof glass to avoid accidental impacts
- Wall-mounted design, black oxidised aluminium , standard VESA holes on the backside
- Aluminium alloy housing with IP65 front panel protection rating

System Parameters

Product Model	RTM238TL-C-EI510	RTM238TL-C-EI710
Processor	Intel® Core® Ice Lake Processor, Q670E i5-1035G1	Intel® Core® Ice Lake Processor, Q670E i7-1065G7
Number of Cores	Quad-core	Quad-core
Clock Speed	1.00 GHz, up to 3.60 GHz	1.30 GHz, up to 3.90 GHz
Cache	6 MB Intel® Smart Cache	8 MB Intel® Smart Cache
TDP	15W Default	
Integrated Graphics	Intel® UHD Graphics	Intel® Iris® Plus Graphics
Memory	DDR4 8GB Default, (Up to 32GB)	DDR4 8GB Default, (Up to 32GB)
Storage	128 GB SSD Default, Up to 1 TB	
BIOS	AMI BIOS	
5G/4G	Support 5G / 4G [Optional]	
Wi-Fi	Support WIFI + BT [Optional]	
Ethernet	2 * Intel®GBE LAN Chip (10/100/1000 Mbps, RJ45). [Optional: 4 LAN RJ45]	
USB	4 * USB3.0, 2 * USB2.0	
HDMI Output	1 * HDMI (Type-A): max resolution up to 4096 x 2160 @ 30 Hz	
Serial Port	1 * RS485 [Option: GPIO], 3 * RS485 / RS232 (by DIP Switch)	
Operating System	Windows 10/11 64bit, Linux	
Power Supply	DC 12~24V (3P-5.08 Terminal Block)	
Maximum Power Consumption	45 W	45 W

LCD Display

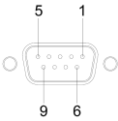
Screen Size	23.8 inch
Backlight Technology	LED
Viewing Area	527 x 296.5 mm
Optimal Resolution	1920 x 1080 @60Hz
Aspect Ratio	16 : 9 (standard)
Viewing Angle	178°H/V
Display Colors	16.7M Colors
Response Time	14 ms (GTG)
Brightness (cd/m ²)	LCD panel : 250 nits, Touch Pcap : 225 nits
Contrast Ratio	1000 : 1
Backlight Lifetime	30,000 hrs

Physical Characteristics

Case Color	Industrial Gray
Dimensions	577.1 x 349.4 x 59 mm
Shipping Dimensions	680 x 470 x 160 mm
Installation Dimensions	100 x 100 mm M4 VESA
Net Weight	8.2 Kg

A	Optional Port ^[1]	K	USB 2.0 *2
B	DC IN (12~24V)	L	Audio Jack
C	USB 3.0 *2	M	GND
D	USB 3.0 *2	N	DIP Switch
E	HDMI	O	COM3
F	RJ45 (Option)	P	COM2
G	RJ45 (Option)	Q	COM1
H	RJ45	R	WIFI (Option)
I	RJ45	S	4G (Option)
J	Power Switch	/	/

Note:
[1] : The default is RS485, GPIO is optional.

Graphic	Pin	Definition
 GPIO (DB9-Female)	1	SIO_GPI70 (0xA06 Bit0,H ^[1])
	2	SIO_GPI71 (0xA06 Bit1,H ^[1])
	3	SIO_GPI72 (0xA06 Bit2,H ^[1])
	4	SIO_GPI73 (0xA06 Bit3,H ^[1])
	5	SIO_GPO74 (0xA06 Bit4,H ^[1])
	6	SIO_GPO75 (0xA06 Bit5,H ^[1])
	7	SIO_GPO76 (0xA06 Bit6,H ^[1])
	8	SIO_GPO77 (0xA06 Bit7,H ^[1])
	9	GND

Note:
[1]: "H" means the default voltage is High.
3.3V is by default, 5V is available if specified.(Detailed inquiry sales)

Touch Screen

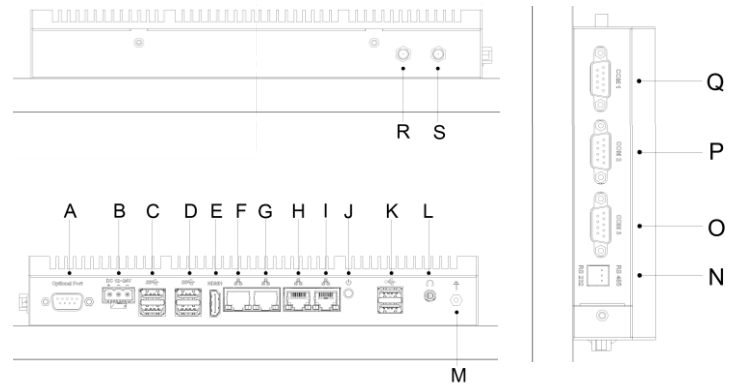
Touch Technology	Projected Capacitive (PCAP)
Touch Points	10-point Touch (Under Windows 10)
Light Transmittance	87% ± 3 %
Cover Glass	3mm physically tempered (silk print),(optional: AG/AR surface treatment, Mohs hardness 7H)
Waterproof Performan	Supports Touch with Fog or Light Rain (Optional)
Driver Support	Driver-Free Under Windows, Driver Required for Linux

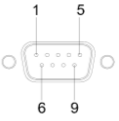
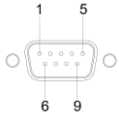
Environment

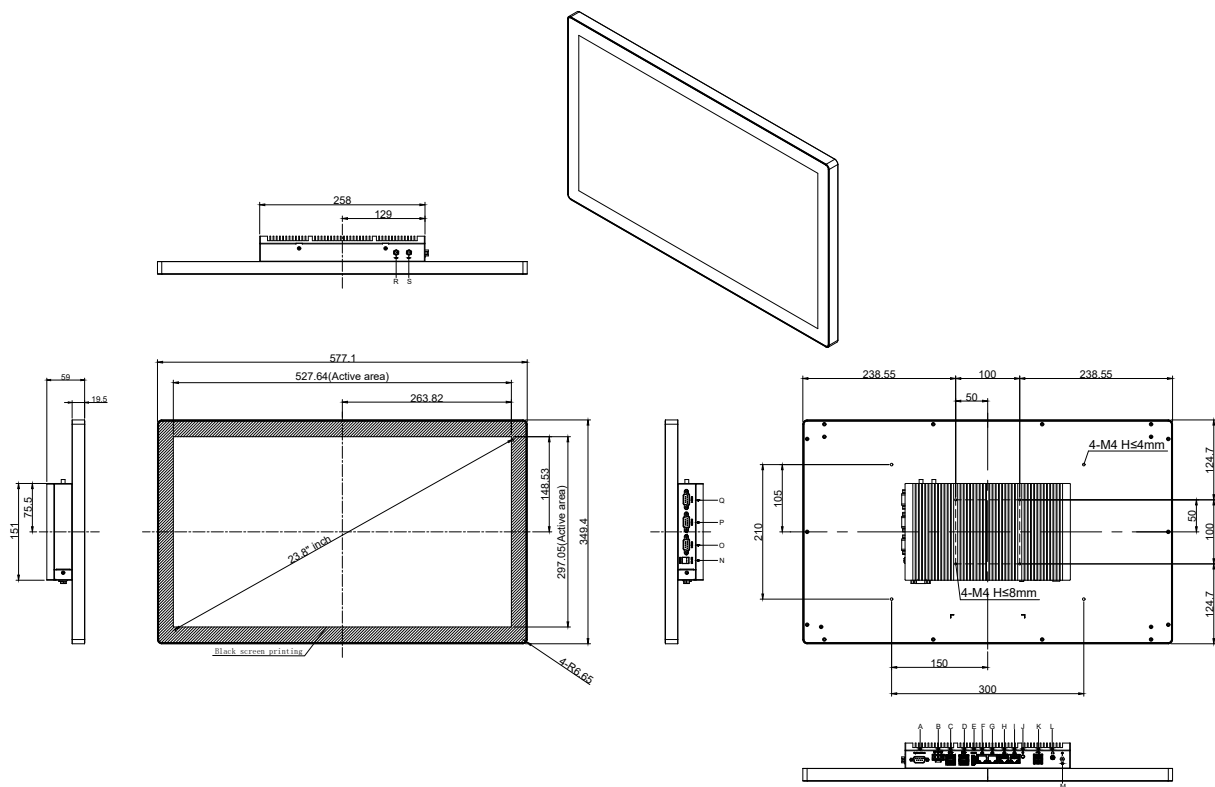
Operating Temperature	0 ~ 50 °C (32 ~ 122°F)
Storage Temperature	-20 ~ 60°C (-4 ~140°F)
Relative Humidity	10 ~ 95% @ 40°C (Non-Condensing)
Waterproof Performan	Front IP65 for waterproof and dustproof

Others

Operating Time	7 x 24 Hours
Warranty	1-year standard warranty
Safety Certification	CE, FCC, CCC



Graphic	Pin	Definition	Graphic	Pin	Definition
 RS232 (DB9-Male)	1		 RS485 (DB9-Male)	1	RS485-
	2	RXD		2	RS485+
	3	TXD		3	
	4			4	
	5	GND		5	GND
	6			6	
	7			7	
	8			8	
	9			9	



A	Optional Port	K	USB 2.0
B	DC IN	L	Line-Out
C	USB 3.0	M	GND
D	USB 3.0	N	DIP SWITCH
E	HDMI	O	COM3
F	RJ45	P	COM2
G	RJ45	Q	COM1
H	RJ45	R	WIFI
I	RJ45	S	4G
J	SWITCH		

				公差	
				除非另有说明 否则所有尺寸都为毫米	
				. x ± 0.2 圆角 ± 0.15	
				. xx ± 0.1 角度 $\pm 0.5^\circ$	
开始	日期	2025-05-15	说明	编写	图号: TDD-TPC-CF238C-F
					比例: 不按比例
					页码: 1 of 1
					版本: 01
					第三视角