



On the front
Waterproof



Shockproof



100 %
Dustproof



Cold and
Heat resistant

Technical Data Panel Series



● standard | ○ optional | - not available

		P15	P18Wx	P21Wx
Display	15.0" / 38.1 cm TFT display (LED) XGA (1024x768) – 500 cd/m ²	●	-	-
	18,5" / 46.9 cm TFT-Display (LED) Full-HD (1920x1080) – 350 cd/m ²	-	●	-
	21,5" / 54.7 cm TFT-Display (LED) Full-HD (1920x1080) – 300 cd/m ²	-	-	●
Touch	Analog resistive touchscreen	●	●	●
	Projected capacitive touchscreen (Multi-touch)	-	○	○
	Can be operated with hands or gloves	●	●	●
	Protective film for touchscreen	○	○	○
Housing	Material: V2A stainless steel (1.4301) polished	●	-	-
	Material: aluminum housing	-	●	●
	Surface: paint finish	-	●	●
Dimensions WxHxD	16.6x12.2x3.8 [inch] / 422x311x96 [mm] ca. 15.2 lbs / 6.9 kg	●	-	-
	19.3x13.7x4.1 [inch] / 491x349x103 [mm] ca. 13.4 lbs / 6.1 kg	-	●	-
	22x15.3x4.1 [inch] / 558x388x103 [mm] ca. 20.5 lbs / 9.3 kg	-	-	●
Installation dimensions WxHxD	14.9x11.2x3.7 [inch] / 379x284x94 [mm]	●	-	-
	17.7x12.4x3.7 [inch] / 450x314x94 [mm]	-	●	-
	20.4x13.8x3.7 [inch] / 517x351x94 [mm]	-	-	●
	additional depth for air flow necessary	-	●	●
CPU	Intel Celeron G4932E (2 Cores / 2 Threads, max. 1,9 GHz)	●	●	●
	Intel Core i3-9100HL (4 Cores / 4 Threads, max. 2,9 GHz)	○	○	○
	Intel Core i7-9850HL (6 Cores / 12 Threads, max. 4,1 GHz)	○	○	○
Memory	4 GB (DDR4-2666)	●	●	●
	Up to 64 GB (DDR4-2666, Dual Channel, 2 SO-DIMM-socket)	○	○	○
Graphics controller	Intel UHD Graphics 610	●	●	●
	Intel UHD Graphics 630	○	○	○
Hard disk	120 GB SSD	●	●	●
	Up to 1 TB SSD	○	○	○
Network Et wireless	LAN 1: Intel® i210 10/100/1.000 MBit (RJ45)	●	●	●
	LAN 2: Intel® i210 10/100/1.000 MBit (RJ45)	●	●	●
	WLAN (802.11 a/b/g/n/ac, Wi-Fi 5)	○	○	○
	BT 5	○	○	○
Interfaces	2 x USB 3.1 Gen2	●	●	●
	4 x USB 3.1 Gen1	●	●	●
	1 x USB 2.0 (internal)	●	●	●
	1 x DisplayPort (Monitor)	●	●	●
	2 x RS232 (COM 1, COM 2)	○	○	○
	2 x RS232 (5VDC/12VDC to PIN9)	○	○	○
	2 x RS422/485 (COM 1, COM 2)	○	○	○
	1 x LPT (ECP, EPP or SPP compatible)	○	○	○
	Expansions	2 x Slots for expansion cards (up to 200 mm long), either as 1 x PCI and 1 x PCIe x4 ¹⁾ 2 x PCIe x4 ¹⁾	○	○
MCU & nSMART	Dedicated microcontroller for system monitoring Et energy management	●	●	●
	Automatic brightness control Et energy saving features	●	●	●
	Temperature Et power supply monitoring, event log and more	●	●	●
	Many customizable settings which are transferable to other units	●	●	●
	3 function keys, easily programmable with nSMART, macro-capability	●	●	●
Special functions	TPM 2.0	●	●	●
Input voltage	24 VDC (18-30 VDC)	●	●	●
	100-240 VAC (external power supply)	○	○	○
	100-240 VAC (internal power supply) ²⁾	○	○	○
	9-160 VDC with external DC/DC converter	○	○	○
Environment	Operating temperature range 32 to 113 °F (0 to 45 °C)	●	●	●
	Extended operating temperature 14 to 113 °F (-10 to 45 °C)	○	○	○
	Extended operating temperature -22 to 122 °F (-30° to 50 °C)	○	○	-
	Storage temperature -4 to 140 °F (-20 to 60 °C)	●	●	●
Certifications	Front IP66	●	●	●
Approvals	CE	●	●	●
	FCC	●	●	●
Operating Systems	Windows® 10	○	○	○
	Windows® IoT	○	○	○
	Linux	○	○	○

¹⁾ The PCI x4 Slots can accommodate x1, x8 and x16 cards

²⁾ All units with the internal power supply option allow for one of the two PCI(e)-slots to be available as low profile



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