

Rugged Industrial PCs for Manufacturing

COMPACT SERIES



2 x 360°
Waterproof



Shockproof



100 %
Dust protected



Cold and
Heat resistant

Technical Data Compact Series



● standard | ○ optional | - not available

		C12x	C15x	C18Wx	C19x	C21Wx	C24Wx
Display	12.1" / 30.7 cm TFT-Display (LED) XGA (1024x768) – 500 cd/m ²	●	-	-	-	-	-
	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	-	-	●	-	-	-
	19.0" / 48.3 cm TFT-Display (LED) SXGA (1280x1024) – 350 cd/m ²	-	-	-	●	-	-
	21.5" / 54.7 cm TFT-Display (LED) Full-HD (1920x1080) – 300 cd/m ²	-	-	-	-	●	-
	24.0" / 61.0 cm TFT-Display (LED) Full-HD (1920x1080) – 300 cd/m ²	-	-	-	-	-	●
	High brightness Display > 1.000 cd/m ²	○	○	-	○	-	-
Touch	Analog resistive touchscreen	●	●	●	●	●	●
	Projected capacitive touchscreen (Multi-touch)	○	○	○	○	○	○
	Can be operated with hands or gloves	●	●	●	●	●	●
	Protective film for touchscreen	○	○	○	○	○	○
Housing	Completely sealed	●	●	●	●	●	●
	Material: aluminum housing	●	●	●	●	●	●
	Surface: paint finish	●	●	●	●	●	●
Dimensions WxHxD	12.5x10.1x3.4 [inch] / 318x258x87 [mm] ca. 9.9 lbs / 4.5 kg	●	-	-	-	-	-
	15.2x12.8x4.0 [inch] / 387x325x101 [mm] ca. 17.4 lbs / 7.9 kg	-	●	-	-	-	-
	19.3x13.7x4.3 [inch] / 491x349x110 [mm] ca. 21.6 lbs / 9.8 kg	-	-	●	-	-	-
	18x16.6x4.4 [inch] / 458x422x111 [mm] ca. 24.3 lbs / 11 kg	-	-	-	●	-	-
	22x15.3x4.4 [inch] / 558x388x111 [mm] ca. 26.5 lbs / 12 kg	-	-	-	-	●	-
	24x16.5x4.4 [inch] / 614x420x111 [mm] ca. 28,6 lbs / 13 kg	-	-	-	-	-	●
	VESA 75/100	●	-	-	-	-	-
Mounting	VESA 100/200	-	○	○	○	○	○
	Mounting bracket, Keyboard holder	○	○	○	○	○	○
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 & 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, internal antennas)	○	○	○	○	○	○
	BT 5	○	○	○	○	○	○
Interfaces	2 x USB 3.1 Gen2	●	●	●	●	●	●
	4 x USB 3.1 Gen1	●	●	●	●	●	●
	1 x USB 2.0 (internal)	●	●	●	●	●	●
	1 x external Service-USB (can be deactivated)	●	●	●	●	●	●
	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⁾	○	○	○	○	○
MCU & nSMART	2 x PCIe x4 ¹⁾	○	○	○	○	○	○
	Dedicated microcontroller for system monitoring & energy management	●	●	●	●	●	●
	Automatic brightness control & energy saving features	●	●	●	●	●	●
	Temperature & power supply monitoring, event log and more	●	●	●	●	●	●
Special functions	Many customizable settings which are transferable to other units	●	●	●	●	●	●
	3 function keys, easily programmable with nSMART, macro-capability	●	●	●	●	●	●
	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 131 °F (-30 to 55 °C)	○	○	○	○	-	-
	Storage temperature -4 to 140 °F (-20 to 60 °C)	●	●	●	●	●	●
Certifications	IP66 external certified (with suitable connector cover)	●	●	●	●	●	●
Approvals	CE	●	●	●	●	●	●
	FCC	●	●	●	●	●	●
	Operating Systems	Windows® 10	○	○	○	○	○
	Windows® IoT	○	○	○	○	○	
	Windows® 11	○	○	○	○	○	
	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

