

Stainless Steel Panel-PCs (R) for Food & Hygiene



Technical Specifications Steel Series (R) N13

	S12	S15	S15R	S18WR	S19R	S21WR	S24WR
Display & Resolution	30.7 cm / 12.1" TFT LED display XGA (1024x768)	38.1 cm / 15.0" TFT LED display XGA (1024x768)	38.1 cm / 15.0" TFT LED display XGA (1024x768)	46.9 cm / 18.5" TFT LED display Full-HD (1920x1080)	48.3 cm / 19.0" TFT LED display SXGA (1280x1024)	54.7 cm / 21.5" TFT LED display Full-HD (1920x1080)	61.0 cm / 24.0" TFT LED display Full-HD (1920x1080)
	Optional: High brightness Display						
Hygienic Design	Completely water- and dustproof up to IP69K (externally certified)						
	Material: V2A stainless steel (1.4301) polished						
	Easy cleaning (flat front & no gaps)						
	Food-safe hygienic EPDM seals						
	Use of special hygienic screws						
Touch	Analog resistive industrial touchscreen						
	Suitable for operation with fingers, touch pens, and gloves						
	Robust front with high impact resistance						
	Glass splinter protection due to double-layer film						
	Optional: Protective Screen Film						
Dimensions (WxHxD) & Weight	14.3x10.0x3.1 [inch] / 364x254x78 [mm] approx. 13.2 lbs / 6.0 kg	16.7x12.3x3.9 [inch] / 424x313x98 [mm] approx. 18.7 lbs / 8.5 kg	15.7x13.5x3.9 [inch] / 400x343x99.5 [mm] approx. 19.2 lbs / 8.7 kg	19.3x13.7x3.9 [inch] / 490x348x99.5 [mm] approx. 20.3 lbs / 9.2 kg	18.0x16.6x3.9 [inch] / 457x421x99.5 [mm] approx. 24.3 lbs / 11.0 kg	21.9x15.2x3.9 [inch] / 557x387x99.5 [mm] approx. 25.4 lbs / 11.5 kg	24.1x16.5x3.9 [inch] / 613x419x99.5 [mm] approx. 28.0 lbs / 12.7 kg
Mounting	VESA 100						
	Various device and keyboard holders available						
CPU & Graphics Controller	Intel® Processor U300E (5 Cores / 6 Threads, max. 4.3 GHz) & Intel® UHD Graphics, 48 EUs, max. 1.10 GHz						
	Intel® Core™ i3-1320PE Processor (8 Cores / 12 Threads, max. 4.5 GHz) & Intel® UHD Graphics, 48 EUs, max. 1.20 GHz						
	Intel® Core™ i5-1340PE Processor (12 Cores / 16 Threads, max. 4.5 GHz) & Intel® UHD Graphics, 80 EUs, max. 1.35 GHz						
	Intel® Core™ i7-1370PE Processor (14 Cores / 20 Threads, max. 4.8 GHz) & Intel® UHD Graphics, 96 EUs, max. 1.40 GHz						
Memory	8 GB (DDR5-5200)						
	Up to 64 GB (DDR5-5200, Dual Channel, 2 SO-DIMM-socket)						
Hard Drive	120 GB SSD						
	Up to 1 TB SSD						

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Network & Wireless	LAN 1: Intel® Ethernet Controller I226, up to 2.5 Gbit/s (RJ45)						
	LAN 2: Intel® Ethernet Controller I226, up to 2.5 Gbit/s (RJ45)						
	Optional: Wi-Fi (802.11 a/b/g/n/ax, Wi-Fi 6), internal or external antennas						
	Optional: BT 5.2						
	Optional: RFID (EM4x02, Hitag1+2™, Legic®, Mifare®, ISO14443A+B, HID Prox)						
Interfaces	4 x USB 3.2 Gen2 (10 Gbit/s)						
	2 x USB 2.0						
	1 x USB 2.0 (internal)						
	Optional: 1 x external Service-USB (can be deactivated)						
	1 x DisplayPort (Monitor)						
	Optional: 2 x RS232 (COM 1, COM 2)						
	Optional: 2 x RS232 (5VDC/12VDC to PIN9)						
	Optional: 2 x RS422/485 (COM 1, COM 2)						
	Additional interfaces available upon request						
Extensions	2 x slots for expansion cards (up to 200 mm long), either as PCI or PCIe x4						
Additional Features, MCU & nSMART	3 function keys, easily programmable with nSMART, macro-capability						
	TPM 2.0						
	Automatic brightness control & energy saving features						
	Dedicated microcontroller for system monitoring & energy management						
	Temperature & voltage monitoring, event log and more						
	Many customizable settings which are transferable to other units						
Input voltage	24 VDC (18-30 VDC)						
	100-240 VAC (external power supply)						
	100-240 VAC (integrated power supply)						
Environment	IP66 externally certified						
	Optional: IP69K externally certified						
	Ambient operating temperature 32 to 104 °F (0 to 40 °C)						
	Extended operating temperature -22 to 122 °F (-30 to 50 °C)						
	Storage temperature -4 to 140 °F (-20 to 60°C)						
Approvals	CE, FCC						
Operating Systems	Windows® IoT, Windows® 11, Linux, IGEL						



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