

TSPC-5-24

Panel PC with 23,8" display in 4:3 format, full glass front, optionally with touch and optically bonded, built-in and surface-mounted version



TSPC-5-24

Panel PC with 23,8" display in 4:3 format, full glass front, optionally with touch and optically bonded, built-in and surface-mounted version

General Information	
Application	Digital Signage, digital guidance system, room occupancy system, digital Advertising.
Chassis	Brushed chrome steel with full glass front Optional powder-coated steel housing in RAL colour
Cooling	Via the design-related shadow gap for flush-mounted installation No additional installation volume is required. Integrated cooling unit with long-life fans for use even under difficult ambient conditions.
Mounting and installation options	Surface-mounted with (wall) mounting plate; Flush-mounted with mounting frame
Image Sticking	In order to avoid image sticking (burn-in effect) on your display, we recommend that you follow the instructions below: - Try to avoid static contents on your display (don't use it as a simple billboard). After 5 minutes any static screen content should be replaced by a moving picture for at least 10 seconds. - If possible, do not always place your logo or other repetitive contents (e.g. greeting template) in the same place. - If possible, do not always fill the background with the same colour. Plan alternating colours or pictures. Use a moving picture or pure black as a screen saver

Technical Specification Display	
Display	23,8"
Display Resolution	1920 x 1080 dots (RGB), aspect ratio 16:9
Colour Depth	16,7 Mio colours (True Colour)
Brightness	450 cd/m ²
Backlight	Energy saving LED-edge-backlight
Contrast Ratio	1000:1
Viewing Angle (horizontal/vertical)	178° / 178° (89-89/89-89)
Pixel Error Class according to EN ISO 9241-307	II (other classes on inquiry)
Front	Full glass front with C-edge made of tempered single-pane safety glass with PC multi-touch

Technical Specification	
Dimensions surface-mounted version incl. wall mounting plate	approx. 341 (H) x 573 (W) x 59,5 (D) mm
Dimensions flush-mounted version with mounting frame	approx. 367 (H) x 599 (W) x 59,5 (D) mm (dimension including all-round ventilation gap and frame)
Size of the installation opening (for drywall/wood/stone wall)	
Installation frame mounted from the rear ('A')	approx. 367 (H) x 599,5 (W) x 70 (D) mm
Installation frame mounted from the front ('B')	approx. 374 (H) x 607 (W) x 70 (D) mm
Supply Voltage	100 – 240 VAC
Power Consumption	approx. 40 Watts
IP-protection class	complete unit IP20
Permissible operation temperature	+ 5° ~ + 35°C
Permissible operation humidity	0 % ~ 95% (relative humidity, without condensation)
Weight	approx. 8.5 kg, installation frame (UMK) approx. 2.5 kg
Noise development	barely perceptible
Power cable	0.5m IEC connection cable

TSPC-5-24

Panel PC with 23,8" display in 4:3 format, full glass front, optionally with touch and optically bonded, built-in and surface-mounted version

Technical Specification of the integrated computer module	
Processor	Intel® Elkhart Lake J6412 Celeron processor 4 cores / base clock 2.0 GHz, max. 2.6 GHz
System Memory	2* SO-DIMM socket for DDR4, 3200 MHz. up to max. 32GB, equipped with 1* 8GB DDR4 SO-DIMM (other capacities optionally available)
Mass Memory	1* M.2 M-key PCIe Gen.3 2242/2280 NVMe + SATA socket equipped with 1* x M.2 2280 NVMe 256GB SSD (other capacities optionally available)
Expansion slots	1* M.2 E-Key 2242/2280, 1* M.2 B-Key 3042 in combination with SIM card slot
Graphics	Intel UHD 10th Gen. Graphic shared Memory
Interfaces on the backside	1* HDMI 2.0b 1* Audio line-out/MIC combo 3.5mm jack socket 3* USB 3.1 (Gen.2) port, 3 x USB 2.0 port 2* Intel® i225V 2.5GbE 1* IEC connector (C13 socket) 1* Power button, LEDs for power, HDD
BIOS	AMI-BIOS UEFI with integrated LAN boot ROM image
Watchdog-Timer	Timeout intervals from 10 sec. - 255 min. (requires trigger software)
System Monitoring	CPU and system temperature, internal operating voltages
Safety	TPM2.0 onboard
Operating System	Windows 10 IOT / Professional, Windows 11 IOT / Professional compatible Linux distributions on request Note: The customer is responsible for operating system maintenance and updates.

Technical specifications of the optional Intel Core i5 upgrade computer	
Processor	Intel® Whiskey Lake Core i5 8365U CPU 4 cores / Base clock 1.6 GHz, max. 4.1 GHz
System Memory	2* SO-DIMM socket for DDR4, 3200 MHz. up to max. 32GB, equipped with 1* 8GB DDR4 SO-DIMM (other capacities optionally available)
Mass Memory	1* M.2 M-key PCIe Gen.3 2242/2280 NVMe + SATA socket equipped with 1* x M.2 2280 NVMe 256GB SSD (other capacities optionally available)
Expansion slots	1* M.2 E-Key 2230 with Intel CNVi
Graphics	Intel UHD 8th Gen. Graphic shared Memory
Interfaces on the backside	1* HDMI 1.4 1* Audio line-out 3.5mm jack socket 4* USB 3.1 (Gen.2), 1 USB3.1 (Gen2) Type C 1* Intel® i219LM 1GbE 1* Intel® i225V 2.5GbE 1* IEC connector (C13 socket) 1* Power button, LEDs for power, HDD
BIOS	AMI-BIOS UEFI with integrated LAN boot ROM image
Watchdog-Timer	Timeout intervals from 10 sec. - 255 min. (requires trigger software)
System Monitoring	CPU and system temperature, internal operating voltages
Safety	TPM2.0 onboard
Operating System	Windows 10 IOT / Professional, Windows 11 IOT / Professional compatible Linux distributions on request Note: The customer is responsible for operating system maintenance and updates.

TSPC-5-24

Panel PC with 23,8" display in 4:3 format, full glass front, optionally with touch and optically bonded, built-in and surface-mounted version

Configuration Options	
TSPC-24-WM	Wall mounting plate for surface mounting
TSPC-24-UMK	Flush-mounted installation set for flush wall installation
TSPC-24-OPZ	Surface-mounted decorative frame with bevelled edges, with and without cable entry at the bottom
TSPC-OPT-WLAN2	Intel Wireless-AC 9260, 2.4Ghz / 5Ghz with Bluetooth 5 WLAN standards: IEEE 802.11a/b/g/n/ac Encryption: WPA, WPA2, WPA3 Antenna position on the top or bottom of the device with 2 28mm antennas, WLAN only possible with surface mounting!
TSPC-OPT-SO1	Lock option to secure the device for surface mounting
TSPC-24-Touch	Rear glass touch, projected capacitive 10-finger multi-touch (PCT) with internal USB connection
TSPC-OPT-AUDIO2	Win10 /11 IoT Optional upgrade to Windows 10 /11 Professional, possible without operating system or installing a customer image
Pre-installed operating system	Lock option to secure the device for surface mounting