

# TSPC-5-15

Panel PC with 15" display in 4:3 format, full glass front, optionally with touch, built-in and surface-mounted version



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| General Information               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application                       | Digital Signage, digital guidance system, room occupancy system, digital Advertising.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Chassis                           | Brushed chrome steel with full glass front<br>Optional powder-coated steel housing in RAL colour                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Cooling                           | Via the design-related shadow gap for flush-mounted installation<br>No additional installation volume is required.<br>Integrated cooling unit with long-life fans for use even under difficult ambient conditions.                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Mounting and installation options | Surface-mounted with (wall) mounting plate;<br>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: <ul style="list-style-type: none"> <li>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.</li> <li>If possible, do not always place your logo or other repetitive contents (e.g. greeting template) in the same place.</li> <li>If possible, do not always fill the background with the same colour. Plan alternating colours or pictures.</li> </ul> Use a moving picture or pure black as a screen saver |

| Technical Specification Display                |                                                                                            |
|------------------------------------------------|--------------------------------------------------------------------------------------------|
| Display                                        | 15"                                                                                        |
| Display Resolution                             | 1024 x 768 dots (RGB), aspect ratio 4:3                                                    |
| Colour Depth                                   | 16,7 Mio colours (True Colour)                                                             |
| Brightness                                     | 450 cd/m <sup>2</sup>                                                                      |
| Backlight                                      | Energy saving LED-edge-backlight                                                           |
| Contrast Ratio                                 | 800:1                                                                                      |
| Viewing Angle (horizontal/vertical)            | 160° / 150° (80-80/70-80)                                                                  |
| 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. 271 (H) x 346 (W) x 56 (D) mm                                                              |
| Dimensions flush-mounted version with mounting frame           | approx. 291 (H) x 366 (W) x 56 (D) mm<br>(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. 291 (H) x 366 (W) x 70 (D) mm                                                              |
| Installation frame mounted from the front ('B')                | approx. 297 (H) x 372 (W) x 70 (D) mm                                                              |
| Supply Voltage                                                 | 100 – 240 VAC                                                                                      |
| Power Consumption                                              | Max. 30 Watts                                                                                      |
| IP-protection class                                            | complete unit IP20                                                                                 |
| Permissible operation temperature                              | + 5° ~ + 35°C                                                                                      |
| Permissible operation humidity                                 | 0 % ~ 95% (relative humidity, without condensation)                                                |
| Weight                                                         | approx. 4 kg                                                                                       |
| Noise development                                              | barely perceptible                                                                                 |
| Power cable                                                    | 0.5m IEC connection cable                                                                          |

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| 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* 4GB 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,<br>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<br>1* Audio line-out/MIC combo 3.5mm jack socket<br>3* USB 3.1 (Gen.2) port, 3 x USB 2.0 port<br>2* Intel® i225V 2.5GbE<br>1* IEC connector (C13 socket)<br>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<br>Linux distributions on request<br>Note: The customer is responsible for operating system maintenance and updates.                  |

| Configuration Options          |                                                                                                                                                                                                                                                       |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSPC-15-WM                     | Wall mounting plate for surface mounting                                                                                                                                                                                                              |
| TSPC-15-UMK                    | Flush-mounted installation set for flush wall installation                                                                                                                                                                                            |
| TSPC-OPT-WLAN2                 | Intel Wireless-AC 9260, 2.4Ghz / 5Ghz with Bluetooth 5<br>WLAN standards: IEEE 802.11a/b/g/n/ac<br>Encryption: WPA, WPA2, WPA3<br>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-15-Touch                  | Rear glass touch, projected capacitive 10-finger multi-touch (PCT) with internal USB connection                                                                                                                                                       |
| Pre-installed operating system | Win10 /11 IoT<br>Optional upgrade to Windows 10 /11 Professional, possible without operating system or installing a customer image                                                                                                                    |