

The Best Solution for Operator and Information Terminals.

INDUSTRIAL PANEL PC 10,1" · AHM / EHM





SMALL OPERATOR PANELS FOR VERSATILE USES

These compact panels are designed as robust complete PC systems and perfectly suited to the standard display of plant and system conditions as well as the entry of data and commands for monitoring and control operations. They offer

adequate performance for any application and can be integrated smoothly into any environment, be it production automation or medical engineering. They can also be used at the POI (point of information).



Photo: Hermle AG

YOUR BENEFITS

One system for multiple purposes

- Operation, monitoring, control
- Surface-mounted and flush-mounted panels

Open standards

- Industrial motherboard
- Up-to-date communication interfaces
- Windows and Linux operating systems

Embedded configuration

- AMD eKabini dual-core processor
- High-performance graphics
- Storage combinations

Characteristics for practical use

- 17:10-format TFT display
- PCT widescreen multitouch
- Hygienic design
- Fanless CPU and system cooling

Reliable basis for planning and investing

- High system availability
- Long-time availability of computer components

THE IDEAL SOLUTION FOR YOUR APPLICATION

Universal

Both panel types have similar design: Both are all-in-one systems – fitted with TFT display, widescreen multitouch and a built-in single-board computer.

The only difference is in their area of application: The AHM version is a surface-mount device with protection rating IP 65, whereas the FHM version is designed for flush mounting into consoles, front panels, or electrical cabinet doors and has protection rating IP 65 on the front and IP 20 on the back.

The fanless system design - without any mechanical wearing parts and easy access to PC components - supports maintenance-free operation. The silhouette of the aluminium enclosure in combination with the surrounding dark display frame provides the typical look of IT devices.

High performance

The computer platform is based on an AMD Embedded CPU for an optimised, energy-efficient system-on-chip design: A dual-core processor, built-in chip set for GPU, memory support as well as I/O controller provide sustainable on-board processing performance.

Because it is possible to combine different storage media and operating systems, the system can be configured precisely to match customer requirements with regard to storage capacity and component-based software.

The panel includes multiple interfaces: Gigabit Ethernet, USB and serial interfaces are available for quick temporary access; a display port allows for the connection of an external display unit.

Process-oriented

The panels stand out for their exceptional front-end design without any beads or edges. The safety glass pane with anti-reflective coating is flush-mounted in a natural anodised aluminium front frame. This allows for easy, thorough cleaning or disinfection and conforms to the highest hygienic standards.

With the surface-mount panel (AHM), the stainless steel housing creates a closed backing. A flange connection is provided for fastening to support arm or swivel arm systems using VESA 75.

The flush-mount panel (EHM) has a backing of galvanised steel and includes threaded rods for Quick Fix installation where no fasteners at all are visible in the front.



FOCUS ON YOUR APPLICATION

Housing	<ul style="list-style-type: none"> · High-quality natural anodised aluminium front frame · Combined glass-aluminium device design without beads or edges · Industry-strength, EMC-compliant housing design without mechanical wearing parts · AHM: Backing – Stainless steel housing · AHM: Flange connection adapter for device support arm systems using VESA 75 · EHM: Backing – Galvanised steel housing · EHM: Quick Fix fasteners for installation in panel banks
Dimensions (W x H x D)	<ul style="list-style-type: none"> · AHM: 280 x 190 x 81 mm · EHM: 280 x 190 x 74 mm · Panel bank: Plus 8 mm in front of panel bank
Front end	<ul style="list-style-type: none"> · Full-surface glass front with built-in multitouch
Protection rating	<ul style="list-style-type: none"> · AHM: IP 65 all-round · EHM: Front IP 65, back IP 20
Display	<ul style="list-style-type: none"> · 25.6 cm (10.1") TFT Color WSVGA · Resolution: 1024 x 600 pixel · LED back light
Touchscreen	<ul style="list-style-type: none"> · Ten-point PCT (projected capacitive touchscreen) with ITO sensors
Baseboard / CPU module	<ul style="list-style-type: none"> · Industry standard board SBC-6 · CPU: AMD eKabini GX-217GA DC (1.60 GHz) · Chip set: AMD Radeon HD 8000 · Fanless CPU and system cooling
RAM	<ul style="list-style-type: none"> · 2 to 8 GB DDR3-SDRAM
Mass storage	<ul style="list-style-type: none"> · Hard drive 6.4 cm (2.5") 24 x 7 SATA 320 GB or 500 GB · Solid state drive 6.4 cm (2.5") 120 GB or 240 GB · mSATA 4 GB, 16 GB or 32 GB
Power supply	<ul style="list-style-type: none"> · 24 V DC (19...36 V DC)

Interfaces	<ul style="list-style-type: none"> · 2 x USB 3.0 · 2 x Gigabit Ethernet · 1 x RS 232/422/485 (configurable via BIOS) · 1 x DVI-I
Ambient temperature	<ul style="list-style-type: none"> · 0°C to 50°C/38°C EHM/AHM (system without HDD) · 5 °C to +50°C/38°C EHM/AHM (system with HDD) · 0 °C to +50°C/38°C EHM/AHM (Intel Atom series)
EMC: Interference emission/immunity	<ul style="list-style-type: none"> · Compliant with EN 55022:2010 Class A · Compliant with EN 55024:2010 and EN 61000-6-2:2005
Shock loads/ Vibration loads during operation	<ul style="list-style-type: none"> · EN 60068-2-27 · EN 60068-2-6
Operating system	<ul style="list-style-type: none"> · Windows Embedded Standard 7 or 8 · Windows 7 Professional (in combination with HDD/SSD) · Windows Embedded 8 Professional (in combination with HDD/SSD) · Embedded Linux (open source based)
Additional software	<ul style="list-style-type: none"> · Visualisation etc. upon request
Continuous testing	<ul style="list-style-type: none"> · 24 h burn-in before shipping – system without HDD · 48 h burn-in before shipping – system with HDD
Conformity marking	<ul style="list-style-type: none"> · CE





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