

Technical Features

Industrial Open Frame

With our modular system you can configure the Touch Panels of the Industrial Open Frame Panel series exactly according to your requirements. In addition, you get an extensive range of expansion options and different CPUs. So you are extremely flexible without leaving the standard. This saves you high development costs.



Industrial Open Frame Panel for installation

Our Open Frame product variant is optimally designed for front installation in control cabinets or consoles. The slim architecture of the Touch Panel is ideally suited for this. Due to the missing frame of the Panel, there are no dirty edges, as the touch screen is installed completely flat. This Touch Panel impresses as an inconspicuous and cost-effective solution.

Benefits of the Industrial Open Frame Panel at a glance:

- Numerous display diagonals from 7 to 24 inches
- 13.3 to 24 inches in Full HD
- Numerous performance classes from monitor to powerful Touch Panel PC
- Individual configuration through interface extensions and memory upgrades
- Intelligence is compactly integrated in the back cover with uniform form factor
- Protection up to IP65
- Development and production in Germany
- Image and BIOS customization for Windows and Linux
- New, modern design
- Retrofitting in the field possible

To product web page:



From ideas to reality

Christ
ELECTRONIC SYSTEMS

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Possible applications:

Monitor, Distance Monitor, Web Panel,
Panel PC, All-in-One PLC

Display diagonals:

7 - 24 inch, 13.3 inch to 24 inch available in
Full HD

Possible CPUs:

- NXP® i.MX 8M Plus Quad Core
- Intel® Celeron™ N3350 1.1 GHz
- Intel® Celeron™ 3965U 2.2 GHz
- Intel® Core™ i3-7100U 2.4 GHz
- Intel® Core™ i5-7300U 2.6 GHz
- Intel® Core™ i7-7600U 2.8 GHz

Memory:

- RAM: max. 4GB DDR4 (i.MX8)
- RAM: max. 8GB DDR3L (N3350)
- RAM: max. 32GB DDR4
- Mass Storage: eMMC 8 GB to 64 GB,
Micro SD Card
- Mass Storage: 3D TLC SSD 64 GB to
512 GB

System overview i.MX8:

- USB 3.0 Host: 2 (Type A, bottom)
- Ethernet 10/100/1000-BaseT: 2 (RJ45)
- EIA-232: 1 (Sub-D)
- RTC: Yes
- Temperature range: 0 to +50°C
- Cooling: Passive (fanless)
- Power: 12 - 24 VDC ± 20%
- Power Button: Optional

System overview N3350:

- TPM 2.0: Yes
- USB 3.0 Host: 2 (Type A, bottom)
- Ethernet 10/100/1000-BaseT: 2 (RJ45)
- EIA-232/EIA-422/EIA-485: 1 (RJ50)
- DisplayPort: 1 (DP 1.0)
- RTC: Yes
- Temperature range: 0 to +50°C
- Cooling: Passive (fanless)
- Power: 12 - 24 VDC ± 20%
- Power Button: Optional

System overview 3965U, i3, i5, i7:

- TPM 2.0: Yes
- USB 2.0 Host: 2 (Type A, bottom)
- USB 3.0 Host: 2 (Type A, bottom)
- Ethernet 10/100/1000-BaseT: 2 (RJ45)
- EIA-232/422/485: 1 (Sub-D)
- DisplayPort: 1 (DP 1.1)
- RTC: Yes
- Temperature range: 0 to +50°C
- Cooling: Passive (fanless)
- Power: 12 - 24 VDC ± 20%
- Power Button: Optional

System overview All-in-One PLC with CODESYS:

- CPU: NXP® i.MX 8M Plus QuadCore (1.35 GHz or 1.8 GHz; license-dependent)
- TPM 2.0: Infineon SLB9670
- NVRAM: 128 kB
- RTC: RV-8803-C7 (±5 ppm)
- RAM: 1 GB DDR4
- Primary Mass Storage: eMMC, 8 GB
- USB 3.0 Host: 2 (Type A, bottom)
- Ethernet 10/100/1000-BaseT: 2 (RJ45)
- Operating temperature: 0 to 50°C
- Cooling: Passive (fanless)
- Power: 24 VDC ± 30%
- Reset Button: Yes (bottom)
- UPS: Yes (internal, for system use)
- Run/Stop Switch: Yes (lighted, bottom)
- Service Button: Yes (bottom)
- Power/Error/User LED: Yes (RGB-LED, bottom)

There are numerous extensions for all variants

