Technical Features

Industrial VESA Automation

With our modular system you can configure the Touch Panels of the Industrial VESA Automation 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.

Fieldbus extension for industrial protocols
The new Touch Panel generation offers the possibility to extend a communication module. The integrable Deutschmann fieldbus node handles the entire bus or Ethernet data traffic.

The following fieldbuses can be realized with the extension module:

- EtherCAT
- EtherNet/IP
- Modbus TCP
- PROFINET

Protection up to IP65
You need a higher protection class for your application? We also offer you an elegant solution for this. On the back of the industrial Touch Panel, the protection class can be easily increased with the help of an extension. The extension has an opening through which the cables are pulled. The interfaces are then completely protected from environmental influences. This is how you achieve the IP65 protection class.

To product web page:

Benefits of the Industrial VESA Automation Panel at a glance:

- Numerous display diagonals from 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
- Connection to different fieldbus systems through expansion card
- Protection up to IP65
- Development and production in Germany
- Image and BIOS adaptation for Windows and Linux
- Particularly flat Push Buttons
- Individually assignable functionality
- Integration of a RFID reader possible
- Push Button bar can be individually colored
- Pushbutton exchange in the field avoids downtimes
- Probe evaluation via different field buses
- Individual color design of the rear cover, matching the machine design
- Quick display exchange in case of service, due to separate front and rear unit
- Retrofitting in the field possible

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:
13.3 - 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 (i.MX8)
- Mass Storage: 3D TLC SSD 64 GB to 512 GB

System overview i.MX8:
- TPM 2.0: Yes
- 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 oder 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
- UPS: Yes (internal, for system use)
- Run/Stop Switch: Yes (lighted)
- Service Button: Yes
- Power/Error/User LED: Yes (RGB-LED)

There are numerous extensions for all variants