

HMI40 ^[new]

Multicore ARM based visualization systems



HMI40 family combines in a unique solution visualisation and remote assistance functions. Based on Windows Embedded Compact 7 Pro operating system, HMI40 panels integrate the numerous and advanced features of PHMI4 visualization software, in Basic or Advanced versions and ASEM UBIQUITY remote assistance solution. They are available with a wide range of 16 million colors LED backlight TFT LCD sizes

with Aluminium (resistive touchscreen), Aluminium True Flat (resistive touchscreen) or Aluminium True Flat Multitouch front panels (glass projected capacitive touchscreen). HMI40 systems are based on the ARM Cortex A9 1.0 GHz processor (Freescale i.MX6 Quad Core, Dual Core or Dual Lite) with 1 or 2 GB system RAM (DDR3-1600/800), 4 or 8 GB eMMC memory and a slot for a removable MicroSD memory card.

The motherboard includes the isolated 24 V DC power supply, two 10/100/1000 Mbps Ethernet interfaces, an RS-232/422/485 configurable serial port with MPI support, two USB 2.0 interfaces and an optional MicroUPS (removable). HMI40, optionally, can be supplied with an isolated CAN interface or an additional isolated RS-485 serial port.

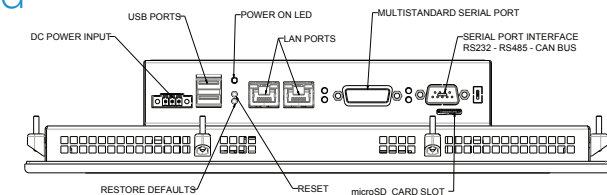
+ Highlights

- Premium HMI visualisation software
- Ubiquity Remote Assistance Software with remote access via VPN to the system and to Ethernet and Serial sub-networks
- 8.4", 10.4", 12.1", 15" displays in 4:3 aspect ratio; 10.1" and 12.1" displays in 16:10 aspect ratio, 7", 15.6" and 18.5" displays in 16:9 aspect ratio
- ARM Cortex A9 Quad Core, Dual Core or Dual Lite processor (1 GHz)
- Optional MicroUPS (removable and easily exchangeable)
- Optional isolated CAN interface or additional isolated RS485 port
- Front panel in Aluminium or Aluminium True Flat with resistive touchscreen
- Front panel in Aluminium True Flat Multitouch with glass projected capacitive touchscreen (for 16:10 and 16:9 aspect ratio front panels)
- IP66 front degree of protection - Enclosure type 4X (Indoor use only)
- Isolated power supply with galvanic isolation
- Operating temperature 0°C ÷ +50°C

Gallery



I/O shield



Technical data

| | HMI40 | HMI40-TF |
|------------------------------|---|---------------------|
| HMI Software | PREMIUM HMI 4 BASIC/ ADVANCED | |
| REMOTE ASSISTANCE SW | ASEM UBIQUITY PRO | |
| O.S. INSTALLED | Windows Embedded Compact 7 Pro | |
| LED backlight TFT LCD | 7" W - 800x480 | |
| | 8.4" - 800x600 | |
| | 10.1" W - 1280x800 | |
| | 10.4" - 800x600 | |
| | 12.1" W - 1280x800 | |
| | 12.1" - 800x600 / 1024x768 | |
| | 15.0" - 1024x768 | |
| TOUCHSCREEN | Resistive 4 wires for 7" | |
| | Resistive 5 wires for other sizes | |
| | Aluminium | Aluminium True Flat |
| FRONT PANEL PROTECTION GRADE | IP66, Enclosure type 4x - front | |
| PROCESSOR | ARM Cortex A9 processor Freescale® i.MX6 1 GHz | |
| SYSTEM MEMORY - RAM | 1/2 GB with DDR3 chips soldered | |
| MASS STORAGE | 4/8 GB eMMC (Solid State Disk) 8bit, file system organization for projects and applications | |
| | 1 x Slot microSD | |
| LAN | 2 x Ethernet 10/100/1000 Mbps (RJ45) | |
| USB | 2 x USB 2.0 (Type-A, rear) | |
| SERIAL | 1 x RS-232/422/485 (DB15M) | |
| | 1 x RS485 isolated (DB9M) with terminations (optional) | |
| FIELD BUS | 1 x CAN isolated channel (DB9M) and terminations (optional) | |
| POWER SUPPLY UNIT | 24VDC isolated | |
| | Backup for microinterruption, max 500ms, with supercapacitors (optional) | |
| OPERATING TEMPERATURE | 0° - 50°C | |
| APPROVALS | CE, ATEX pending, cULus (508) pending | |