

# HMI30 / HMI31

Visualization systems from 5.7" to 15.6"



HMI30/31 operating panels integrate the numerous and advanced features of Premium HMI visualization software, in Basic or Advanced version, and the remote assistance software platform Ubiquity. The HMI30/31 operator panel family provides a wide range of sizes with 16 million colors LED backlight TFT LCDs, and Aluminium and Aluminium True Flat front panels. ASEM HMI30 features a 1 GHz ARM Cortex A8 processor (Freescale i.MX535) with Windows Embedded Compact 7 Pro operating system.

ASEM HMI31 features a 800 MHz ARM Cortex A8 processor (Freescale i.MX537) with Windows Embedded Compact 7 Pro operating system. The motherboard features 1 GB system RAM (DDR3-800), a writeprotected 256 MB Nand-Flash for the operating system and Runtimes storage, 4 GB eMMC memory for storage and management of HMI project data and a slot for a removable SDHC memory card.

The motherboard has a RS-232/422/485 configurable serial port with MPI support, two USB 2.0 interfaces, one Ethernet interface 10/100 Mbps, one Ethernet interface 100 Mbps and one CAN interface (only HMI31). The HMI30/31 is equipped with a 24VDC power supply with an optional power backup for micro-interruption with supercapacitors. HMI30/31 includes the ASEM System Manager, a series of software utilities to improve the operator panels management.



## Highlights

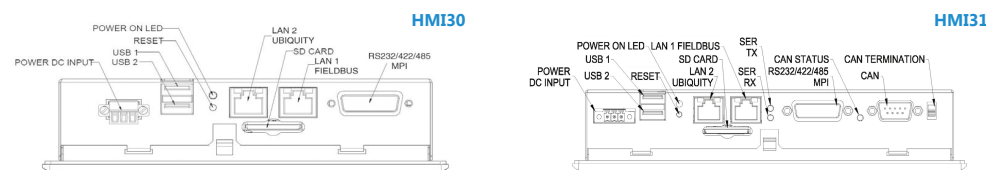
- Ubiquity Remote Assistance Software with remote access to the system and to Ethernet and Serial sub-networks
- ARM Cortex A8 Processor at 1 GHz / 800 MHz
- ASEM Smart memory system
- 5.7", 8.4", 10.4", 12.1", 15" displays in 4:3 aspect ratio, 10.1" and 12.1" displays in 16:10 aspect ratio, and 7" and 15.6" displays in 16:9 aspect ratio
- Front panel in Aluminium or Aluminium True Flat
- IP66 front degree of protection - Enclosure type 4X (Indoor use only)
- Operating temperature 0°C ÷ +50°C
- UL 508 listed component
- ATEX approval Zone 2/22 (only HMI30)



## Gallery



## I/O shield



## Technical data

	HMI30	HMI30-TF	HMI31	HMI31-TF
<b>HMI Software</b>	PREMIUM HMI 4 BASIC / ADVANCED			
<b>REMOTE ASSISTANCE SW</b>	ASEM UBIQUITY PRO			
<b>OS INSTALLED</b>	Microsoft Windows Embedded Compact 7 Pro			
<b>LED backlight TFT LCD</b>	5.7" - 640x480 7" W - 800x480 8.4" - 800x600 10.1" W - 1280x800 10.4" - 800x600 12.1" W - 1280x800 12.1" - 800x600 / 1024x768 15.0" - 1024x768 15.6" W - 1366x768		7" W - 800x480 8.4" - 800x600 10.1" W - 1280x800 10.4" - 800x600 12.1" W - 1280x800 12.1" - 800x600 / 1024x768 15.0" - 1024x768 15.6" W - 1366x768	
<b>TOUCHSCREEN</b>	Resistive 4 wires for 5.7" and 7" Resistive 5 wires for other sizes			
<b>FRONT PANEL</b>	Aluminium	True Flat Aluminium	Aluminium	True Flat Aluminium
<b>PROTECTION GRADE</b>	IP66, Enclosure type 4x - front			
<b>PROCESSOR</b>	ARM Cortex A8 processor Freescale® i.MX535 1 GHz		ARM Cortex A8 processor Freescale® i.MX537 800 MHz	
<b>SYSTEM MEMORY - RAM</b>	1 GB			
<b>MASS STORAGE</b>	256 MB Read-Only NAND-Flash for operating system and runtime 4 GB eMMC (Solid State Disk) 8bit, file system organization for projects and applications 1 x Slot SD/SDHC v2.0			
<b>LAN</b>	LAN1 Ethernet 100 Mbps (RJ45) LAN2 Ethernet 10/100 Mbps (RJ45)			
<b>USB</b>	2 x USB 2.0 (Type A, rear)			
<b>SERIAL</b>	1 x RS-232/422/485 (DB15M)			
<b>FIELDBUS INTERFACES</b>	-		1 x CAN isolated channel (DB9M) with FlexCAN integrated controller	
<b>POWER SUPPLY UNIT</b>	24VDC		24VDC isolated	
<b>OPERATING TEMPERATURE</b>	Backup for microinterruption, max 500ms, with supercapacitors (optional) 0° - 50°C			
<b>APPROVALS</b>	CE, cULus LISTED (508), ATEX zone 22, 11 3 D	CE, cULus LISTED (508), ATEX zone 2/22, 11 3 G D	CE, cULus LISTED (508)	