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.
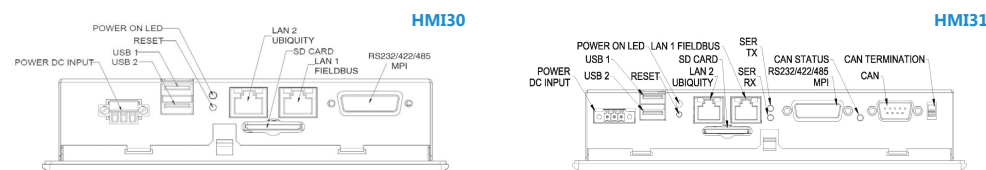
ASEM HMI31 features a 800 MHz ARM Cortex A8 processor (Freescale i.MX537) with Windows Embedded Compact 7 Pro operating system. The motherboard features 1 GB system RAM (DDR3-800), a writeprotected 256 MB Nand-Flash for the operating system and Runtimes storage, 4 GB eMMC memory for storage and management 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
HMI Software	PREMIUM HMI 4 BASIC / ADVANCED			
REMOTE ASSISTANCE SW	ASEM UBIQUITY PRO			
OS INSTALLED	Microsoft Windows Embedded Compact 7 Pro			
LED backlight TFT LCD	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	
TOUCHSCREEN	Resistive 4 wires for 5.7" and 7"			
	Resistive 5 wires for other sizes			
FRONT PANEL	Aluminium	True Flat Aluminium	Aluminium	True Flat Aluminium
PROTECTION GRADE	IP66, Enclosure type 4x - front			
PROCESSOR	ARM Cortex A8 processor Freescale® i.MX535 1 GHz		ARM Cortex A8 processor Freescale® i.MX537 800 MHz	
SYSTEM MEMORY - RAM	1 GB			
MASS STORAGE	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			
LAN	LAN1 Ethernet 100 Mbps (RJ45)			
	LAN2 Ethernet 10/100 Mbps (RJ45)			
USB	2 x USB 2.0 (Type A, rear)			
SERIAL	1 x RS-232/422/485 (DB15M)			
FIELDBUS INTERFACES	-		1 x CAN isolated channel (DB9M) with FlexCAN integrated controller	
POWER SUPPLY UNIT	24VDC		24VDC isolated	
	Backup for microinterruption, max 500ms, with supercapacitors (optional)			
OPERATING TEMPERATURE	0°- 50°C			
APPROVALS	CE, cULus LISTED (508), ATEX zone 22, II 3 D	CE, cULus LISTED (508), ATEX zone 2/22, II 3 G D	CE, cULus LISTED (508)	