

## Industrial Automation - Products &amp; Configurations

HMI30 BASIC		Basic configuration > note 1		POWER [W]
Basic configuration	LCD TFT 5,7" • Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • fanless • Windows Embedded Compact 7 Pro • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum front panel • 12 months warranty			7
<b>HMI SOFTWARE</b>	Premium HMI 4 <b>BASIC</b> WinCE runtime			-
	Premium HMI 4 <b>ADVANCED</b> WinCE runtime			-
<b>REMOTE ASSISTANCE</b>	ASEM UBIQUITY PRO WinCE runtime			-
<b>FRONT PANEL</b>	Aluminum front panel • ASEM logo sticker			-
<b>PROCESSOR</b>	ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board			-
<b>DISPLAY &amp; TOUCH-SCREEN</b>	5,7" LCD TFT 4:3 • VGA, 640x480, 256K colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/45°:55° 5,7" touch-screen • 4 wires resistive technology • Controller integrated on board	no		-
	7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m2 • Viewing angle L:R/U:L (typ.): 70°:70°/70°:60° 7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board	no		+ 3
	8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • backlight LED, 350 cd/m2 • Viewing angle L:R/U:L (typ.): 75°:75°/60°:70° 8,4" touch-screen • 5 wires resistive technology • Controller integrated on board	no		+ 1
	10,1" W LCD TFT 16:10 • SVGA, 1280x800, 16M colors • backlight LED, 400cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:80° 10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	no		+ 3
	10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight , 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	no		+ 4
	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:60° 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board	yes		+ 8
	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 12,1" touch-screen • 5 wires resistive technology • Controller integrated on board	yes		+ 12
	12,1" W LCD TFT 16:10 • WXVG, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 88°:88°/88°:88° 12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	no		+ 9
	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70° 15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	yes		+ 11
	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/80°:80° 15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board	no		+ 10
<b>POWER SUPPLY</b>	Power supply section with backup for microinterruptions			+ 2
<b>WARRANTY</b>	12 months on system and its variants			-
OPTIONS				
<b>MPI</b>	Adapter cable from DB15F to DB9F (MPI/PPI)			-
<b>WARRANTY EXTENSION</b>	Warranty extension to 18 months on basic system and its variants			-
	Warranty extension to 24 months on basic system and its variants			-
	Warranty extension to 36 months on basic system and its variants			-

**NOTES**

For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.

Price does not include Premium HMI Studio 2014 development tool licence that must be purchased one-off at the first order of a license or system that includes the Premium HMI

**1:** software. See pg.206

Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.205

**2:** Glass Film Glass (GFG) Touch-Screen option: see pg.210 for differences with standard Touch-Screen configuration.

## Industrial Automation - Products &amp; Configurations

HMI30-TF		Basic configuration > note 1	POWER [W]
Basic configuration	LCD TFT 5,7" • Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC • fanless • Windows Embedded Compact 7 Pro • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum and polycarbonate TrueFlat front panel • 12 months warranty		7
HMI SOFTWARE	Premium HMI 4 <b>BASIC</b> WinCE runtime		-
	Premium HMI 4 <b>ADVANCED</b> WinCE runtime		-
REMOTE ASSISTANCE	ASEM UBIQUITY PRO WinCE runtime		-
FRONT PANEL	Aluminum TrueFlat front panel with touch-screen overlaminated with OCA (Optical Clear Adhesive) • ASEM logo serigraph printed		-
DISPLAY & TOUCH-SCREEN	5,7" LCD TFT 4:3 • VGA, 640x480, 256K colors • backlight LED 500 cd/m2 • Viewing angle L:R:U:L (typ.): 70°:70°/45°:55°		
	5,7" touch-screen • 4 wires resistive technology • Controller integrated on board		
	7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m2 • Viewing angle L:R:U:L (typ.): 70°:70°/70°:60°		+ 3
	7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board		+ 1
	8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • backlight LED, 350 cd/m2 • Viewing angle L:R:U:L (typ.): 75°:75°/60°:70°		+ 1
	8,4" touch-screen • 5 wires resistive technology • Controller integrated on board		
	10,1" W LCD TFT 16:10 • SVGA, 1280x800, 16M colors • backlight LED, 400cd/m2 • Viewing angle L:R:U:L (typ.): 80°:80°/80°:80°		+ 3
	10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board		
	10,4" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight , 400 cd/m2 • Viewing angle L:R:U:L (typ.): 80°:80°/70°:70°		+ 4
	10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board		
	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • backlight LED, 500 cd/m2 • Viewing angle L:R:U:L (typ.): 80°:80°/80°:60°		+ 8
	12,1" touch-screen • 5 wires resistive technology • Controller integrated on board		
	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 600 cd/m2 • Viewing angle L:R:U:L (typ.): 80°:80°/70°:70°		+ 12
	12,1" touch-screen • 5 wires resistive technology • Controller integrated on board		
	12,1" W LCD TFT 16:10 • WXVGA, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R:U:L (typ.): 88°:88°/88°:88°		+ 9
	12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board		
	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • backlight LED, 450 cd/m2 • Viewing angle L:R:U:L (typ.): 80°:80°/70°:70°		+ 11
	15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board		
POWER SUPPLY	15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R:U:L (typ.): 85°:85°/80°:80°		+ 10
	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board		
WARRANTY	12 months on system and its variants		-

## OPTIONS

MPI	Adapter cable from DB15F to DB9F (MPI/PPI)		-
WARRANTY EXTENSION	Warranty extension to 18 months on basic system and its variants		-
	Warranty extension to 24 months on basic system and its variants		-
	Warranty extension to 36 months on basic system and its variants		-

## NOTES

For power consumption calculation we recommend to read the tips on pg. 4. The power values does not include the absorbed power of USB devices connected to the ports.

**1:** Price does not include Premium HMI Studio 2014 development tool licence that must be purchased one-off at the first order of a license or system that includes the Premium HMI software. See pg.206

Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.205


**Industrial Automation - Products & Configurations**

Premium HMI runtimes differences	<b>BASIC</b>	<b>ADVANCED</b>
<b>I/O Bytes (Tags)</b>	1.024	4.096
<b>Alarms</b>	512	2.048
<b>Data Loggers on SQL Database for CE</b>	Max 2	Unlimited
<b>Multi-Drivers</b>	Max 2	Max 4
<b>SMS/E-mails</b>		✓
<b>Web Server</b>		Max 2 clients connected

For Premium HMI 4 details, see pg.206

**ASEM UBIQUITY PRO main features**
**Control Center software for access and management of services with user friendly interface and complete devices management**
**User profile with fine control of permissions**
**Remote desktop, file&task management, chat, screenshot**
**VPN with access to the Ethernet subnetwork of the remote device and serial passthrough support**
**Multiple connection from different Control Center by separated VPN for each client**
**Audit and usage statistics**
**Internet connection with PROXY**
**High security standards with usage of unique certificates and encrypted connections**
**Integrated firewall**
**Quality measurement of Internet connection with automatic selection of the best connectivity condition**
**Runtime update procedure with automatic shutdown and restart of the services**
**Ethernet-MPI gateway for remote assistance on devices with MPI interface**

For ASEM UBIQUITY details, see pg.205

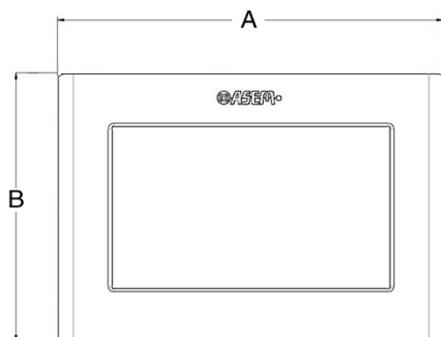
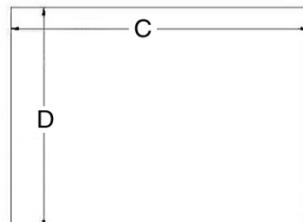
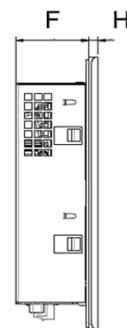
**ASM (ASEM System Manager). Control Panel utilities**
**Backup&Restore** - Complete system cloning or selective backup and restore of the installed softwares

**Screensaver** - Display brightness control or display switch off after an inactivity period

**Antialiasing** - Softens the characters matrix

**TECHNICAL SPECIFICATIONS**

Case	Panel mount
Overall dimensions & weight	See details on the related section
Front Panel	HMI30 • Aluminum • ASEM logo sticker HMI30-TF • Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
Touchscreen	HMI30 • 4/5 wires resistive technology HMI30-TF • resistive 4/5 • overlaminated with OCA (Optical Clear Adhesive)
Frontal protection	IP66, Enclosure type 4X (Indoor use only)
Operating System	Microsoft Windows Embedded Compact 7 Pro license with Microsoft holographic sticker
Software	Premium HMI 4 WinCE BASIC / ADVANCED runtime license Remote assistance • ASEM UBIQUITY WinCE PRO runtime license with ASEM sticker Utility • ASEM System Manager • Backup&Restore, Screensaver, Antialiasing
Power supply	Input voltage 18÷36V DC • Power supply section integrated on board optional • Backup for microinterruption with supercapacitors • Max interruption: 500ms • First load: 6' • Rearm time: 90"
Motherboard	"All-In-One" type • ASEM R131
Processor	ARM Cortex A8 • Freescale i.MX535 • 1 GHz, 400 MHz system memory bus • Soldered on board • GPU (Graphic Processor Unit) integrated
RAM memory	1 GB DDR3-800 • Soldered on board
Mass storage	NAND-Flash 256MB Read-Only • for operating system and runtime eMMC (Solid State Disk) 4GB, 8bit, file system organization • for projects and applications
SD slot	1 x Slot SD/SDHC v2.0 integrated on board • external access
Rear access interfaces	LAN1 Ethernet 100 Mbps (RJ45) • LAN2 Ethernet 10/100 Mbps (RJ45) • 2 x USB 2.0 (Type-A / host)
Rear access serial interfaces	1 x RS-232/422/485 (DB15M) MPI protocol compatible up to 187,5kbit/s
Environmental specifications	Operating temperature: 0° ÷ +50°C • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing)
Approvals	CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • cULus LISTED (UL508) • ATEX 2014/34/UE Zone 2/22
Standard warranty	12 months • Warranty management by ASEM headquarters

**DIMENSIONS (mm)**
**FRONT VIEW**

**CUT OUT**

**SIDE VIEW**

**HMI30**

LCD TFT	A	B	C	D	H	F	Weight (Kg)
5,7"	175	145	164	134	5	40	0,9
7" W	215	155	204	144	5	40	1,2
8,4"	255	190	243	179	5	48,5	1,4
10,1" W	293	201,5	285	193,5	5	48,5	1,6
10,4"	295	230	283	219	5	48,5	1,8
12,1"	325	260	313	249	5	48,5	2,1
12,1" W	321	222,5	313	215	5	48,5	2,0
15"	390	305	378	294	6	48,5	3,3
15,6"	420	265	410	255	6	48,5	3,3

**HMI30-TF**

LCD TFT	A	B	C	D	H	F	Weight (Kg)
5,7"	175	145	164	134	4	40	0,9
7" W	215	155	204	144	4	40	1,2
8,4"	255	190	243	179	5	48,5	1,4
10,1" W	293	201,5	285	193,5	5	48,5	1,6
10,4"	295	230	283	219	5	48,5	1,8
12,1"	325	260	313	249	5	48,5	2,1
12,1" W	321	222,5	313	215	5	48,5	2,0
15"	390	305	378	294	6	48,5	3,3
15,6"	420	265	410	255	6	48,5	3,3

**CONNECTORS VIEW (5,7")**
