



**Industrial Automation - Products & Configurations**

HMI30 BASIC			POWER [W]
Basic configuration > note 1			
Basic configuration	LCD TFT 5,7" • Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC PsuedoSLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum front panel • 12 months warranty		7
	A	B	
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 front panel • ASEM logo sticker	-
PROCESSOR	•	ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board	
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°		no
	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°		no
	7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board		+ 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°		yes
	8,4" touch-screen • 5 wires resistive technology • Controller integrated on board		+ 1
	10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • backlight LED, 400cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85°		no
	10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board		+ 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°		no
	10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board		+ 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°		yes
	12,1" touch-screen • 5 wires resistive technology • Controller integrated on board		+ 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°		yes	
12,1" touch-screen • 5 wires resistive technology • Controller integrated on board		+ 12	
12,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ): 88°:88°/88°:88°		no	
12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board		+ 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°		yes	
15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board		+ 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°		no	
15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board		+ 10	
POWER SUPPLY	•	Power supply section with backup for microinterruptions	+ 2
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.223  
 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.220

2: Glass Film Glass (GFG) Touch-Screen option: see pg.227 for differences with standard Touch-Screen configuration.


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HMI30-TF BASIC			POWER [W]		
Basic configuration > note 1					
Basic configuration	LCD TFT 5,7" • Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC PseudoSLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum and polycarbonate TrueFlat front panel • 12 months warranty		7		
	A	B			
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	-	
PROCESSOR	•	•	ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board		
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° 7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board	+ 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	+ 1	
	•	•	10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • backlight LED, 400cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85° 10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	+ 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	+ 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	+ 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	+ 12	
	•	•	12,1" W LCD TFT 16:10 • WXGA, 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	+ 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	+ 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	+ 10	
	POWER SUPPLY	•	•	Power supply section with backup for microinterruptions	+ 2
	WARRANTY	•	•	12 months on system and its variants	-

OPTIONS				
MPI	•	•	Adapter cable from DB15F to DB9F (MPI/PP1)	
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.223
	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.220



# HMI30-TFC

fanless

## Industrial Automation - Products & Configurations

HMI30-TFC BASIC			POWER [W]
Basic configuration > note 1			
Basic configuration	LCD TFT 7" W • P-CAP projected capacitive Touch-Screen • ARM Cortex A8, 1 GHz • 1 GB RAM • 256 MB NAND-Flash • 4GB eMMC pseudoSLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI 4 BASIC WinCE runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum and tempered glass TrueFlat front panel • 12 months warranty		10
	A	B	
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 and glass TrueFlat front panel with P-CAP projected capacitive touch-screen	-
PROCESSOR	•	• ARM Cortex A8 processor • Freescale i.MX535 • 1 GHz • 400Mhz memory bus • Soldered on board	
DISPLAY & TOUCH-SCREEN	•	• 7" LCD TFT 15:9 • WVGA, 800x480, 16M colors • backlight LED 500 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ.): 70°:70°/70°:60°	
	•	• 7" W Touch-Screen 15:9 • P-CAP projected capacitive touchscreen	
	•	• 10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • backlight LED, 400cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85°	- 0
	•	• 10,1" W Touch-Screen 16:10 • P-CAP projected capacitive touchscreen	
	•	• 12,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 88°:88°/88°:88°	+ 7
	•	• 12,1" W Touch-Screen 16:10 • P-CAP projected capacitive touchscreen	
	•	• 15,6" W LCD TFT 16:9 • 1366x768 (HD), 16M colors • LED backlight, 400 cd/m <sup>2</sup> • Viewing angle L:R/U:L (typ): 85°:85°/80°:80°	+ 8
	•	• 15,6" W Touch-Screen 16:9 • P-CAP projected capacitive touchscreen	
POWER SUPPLY	•	• Power supply section with backup for microinterruptions	+ 2
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	
1:	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 software. See pg.223 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.220



### Industrial Automation - Products & Configurations

Premium HMI runtimes differences	BASIC	ADVANCED
RealTime DB (max, byte)	1.024	8.192
Alarms (max)	1.024	4.096
Recipes / Data Logger (ODBC)	Max 2	Unlimited
Communication drivers	Max 2	Max 4
Alarm notification (SMS, E-Mail)		✓
SMS notification via SMPP protocol		SMS using Internet gateway
Web Clients		Max 4 clients connected
Premium HMI Mobile		✓

For Premium HMI 4 details, see pg.223

ASEM UBIQUITY PRO main features
<b>Control Center application to access the service with intuitive and ergonomic user interface for a comprehensive machine park management</b>
<b>Control Center SDK to interface with 3rd part applications</b>
<b>PROXY server support</b>
<b>Internet sharing with LAN devices</b>
<b>Interactive tool: remote desktop, file transfer, task manager, chat, screenshots</b>
<b>Optimized VPN with access limited to the remote device with Ubiquity Runtime</b>
<b>Optimized VPN with entire access to the complete remote device sub-network and serial passthrough</b>
<b>Multiple connections to a single Runtime with individual VPN per each Control Center client</b>
<b>Connection log accessible from Runtime device</b>
<b>Log and audit of last 10 days connections activities also exportable from Runtime side</b>
<b>High level of security with exclusive use of encrypted connections and certificates</b>
<b>Integrated VPN Firewall</b>
<b>Support for Runtime update with automatic services restart</b>
<b>Ethernet-MPI gateway for remote assistance on devices with MPI interface</b>

For ASEM UBIQUITY details, see pg.220

ASM (ASEM System Manager). Control Panel utilities
<b>Backup&amp;Restore</b> - Complete system cloning or selective backup and restore of the installed softwares
<b>Antialiasing</b> - Softens the characters matrix
<b>Screensaver</b> - Display brightness control or display switch off after an inactivity period
<b>Touch Buzzer</b> - Enable touch sound-feedback
<b>eMMC Usage</b> - Check the eMMC memory usage and evaluate the expected endurance
<b>Kiosk Mode</b> - Hide the O.S. explorer interface and run PHMI runtime in 'kiosk' mode
<b>Language Settings</b> - Easy installation of not european languages characters in HMI applications
<b>Scrollbar</b> - Consente di cambiare le dimensioni delle barre di scorrimento
<b>System reboot</b> - Reboot the system without switching off the power supply

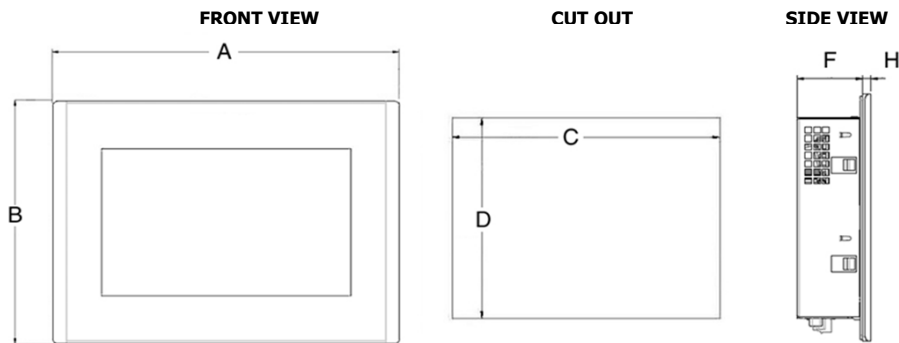
TECHNICAL SPECIFICATIONS	
Case	Panel mount
Overall dimensions & weight	See details on the related section
Front Panel	HMI30 Aluminum • ASEM logo sticker
	HMI30-TF Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed
	HMI30-TFC Aluminum and tempered glass TrueFlat
Touchscreen	HMI30 4/5 wires resistive technology
	HMI30-TF 4/5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive)
	HMI30-TFC projective capacitive touch-screen
Frontal protection	IP66, Enclosure type 4X (Indoor use only)
Operating System	Microsoft Windows Embedded Compact 7 Pro license with Datalight Reliance Nitro file system • Microsoft olographic sticker
Software	HMI 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 PseudoSLC, 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 compatibile 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) (HMI30-TFC pending)• ATEX 2014/34/UE Zone 2/22 (NO HMI30-TFC)
Standard warranty	12 months • Warranty management by ASEM headquarters



# HMI30 family

## Technical Specifications

### DIMENSIONS (mm)



HMI30 LCD TFT	CUT OUT "A"				CUT OUT "B"				H	F	Weight (Kg)
	A	B	C	D	A	B	C	D			
5,7"	175	145	164	134	-	-	-	-	5	40	0,9
7"W	215	155	204	144	204	147,6	197	140,5	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"W	420	265	410	255	-	-	-	-	6	48,5	3,3

HMI30-TF LCD TFT	CUT OUT "A"				CUT OUT "B"				H	F	Weight (Kg)
	A	B	C	D	A	B	C	D			
5,7"	175	145	164	134	-	-	-	-	5	40	0,9
7"W	215	155	204	144	204	147,6	197	140,5	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"W	420	265	410	255	-	-	-	-	6	48,5	3,3

HMI30-TFC LCD TFT	CUT OUT "A"				CUT OUT "B"				H	F	Weight (Kg)
	A	B	C	D	A	B	C	D			
7"W	-	-	-	-	204	147,6	197	140,5	4	40	1,2
10,1"W	293	201,5	285	193,5	-	-	-	-	5	48,5	1,6
12,1"W	331	222,5	313	215	-	-	-	-	5	48,5	2,0
15,6"W	433	267	410	255	-	-	-	-	6	48,5	3,3

