





HMI40 fanless

Industrial Automation - Products & Configurations

	HMI40 BASIC Basic configuration > note 1		POWER [W		
Basic configuration LCD TFT 7" • Touch-Screen • ARM Cortex A9 i.MX6 DualLite, 1 GHz • 1 GB RAM • 4GB eMMC Pseudo-SLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI WinCE BASIC runtime • ASEM UBIQUITY PRO WinCE runtime • / System Manager • Aluminum front panel • 12 months warranty		1	10		
A		¥			
	Premium HMI WinCE BASIC runtime		-		
•	Premium HMI ADVANCED WinCE runtime	¥	-		
REMOTE ASSISTANCE	ASEM UBIQUITY PRO WinCE runtime		-		
		¥			
RONT PANEL	Aluminum front panel - ASEM logo sticker	¥	-		
PROCESSOR	ARM Cortex A9 dual core processor • i.MX6 DualLite • 1 GHz • 400Mhz memory bus • Soldered 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°/60°:60°	÷			
•	Tri WIDE touch-screen • 4 wires resistive technology • Controller integrated on board				
	8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:80°				
•			- 0		
	8,4" touch-screen • 5 wires resistive technology • Controller integrated on board				
•	10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400cd/m2 • Viewing angle L:R/U:L (typ.): 88°:88°/88°:88°		+ 2		
	10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	\rightarrow			
•	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°		+ 2		
	10,4" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board				
DISPLAY & UCH-SCREEN	12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/65°:75°		+ 4		
		' touch-screen • 5 wires resistive technology • Controller integrated on board			
•	12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 600 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/70°:70°		+ 11		
	12,1" touch-screen • 5 wires resistive technology • Controller integrated on board				
•	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°		+ 7		
	12,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board				
•	15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85°		+ 13		
	15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board				
•	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°		+ 8		
	15,6" W Touch-Screen 16:9 • 5 wires resistive technology • Controller integrated on board		-		
	12 months	$\mathbf{+}$			
	OPTIONS	¥	POWER		
MPI	Adapter cable from DB15F to DB9F (MPI/PPI)				
IMUNICATION PORTS	 I x RS-485 (DB9M) isolated with terminations • Without MPI protocol support > note 2 		+ 1		
iFi & MODEM	IEEE 802.11b/g/n WiFi module, 2,4GHz • 2G/3G/4G-LTE modem module > note 2,3				
	- ILLE 002.110/g/H WH HOUSE, 2, TOR2 - 20/30/10-LTE HIOLEH HOUSE > HOLE 2,5		-		

Ł Warranty extension to 18 month • ٠ -WARRANTY • • Warranty extension to 24 months -• • Warranty extension to 36 months -

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.

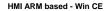
1: Price does not include Premium HMI Studio development tool licence that must be purchased one-off at the first order of a license or system that includes the Premium HMI software. See pg.350 Price does not include ASEM UBIQUITY DOMAIN that must be purchased one-off at the first order of a license or system that includes the UBIQUITY runtime. See pg.347

2: Options signed by note 2 cannot be installed together

3: WiFi & modem modules are not compliant with the ATEX certification







HMI40-TF fanless

Industrial Automation - Products & Configurations

			HMI40-TF BASIC Basic configuration > note 1	POWER [W	
Basic o	configi	urati	LCD TFT 7" • Touch-Screen • ARM Cortex A9 i.MX6 DualLite, 1 GHz • 1 GB RAM • 4GB eMMC Pseudo-SLC • fanless • Windows Embedded compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI WinCE BASIC runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum TrueFlat front panel • 12 months warranty	10	
	A	В	↓ 		
MI SOFTWARE	•	•	Premium HMI WinCE BASIC runtime	-	
MI SOFTWARE	•	•	Premium HMI ADVANCED WinCE runtime	-	
REMOTE ASSISTANCE	•	•	ASEM UBIQUITY PRO WinCE runtime	-	
RONT PANEL	•	•	Aluminum TrueFlat front panel with touch-screen overlaminated with OCA (Optical Clear Adhesive) • ASEM logo serigraph printed	-	
PROCESSOR	•	•	ARM Cortex A9 dual core processor • i.MX6 DualLite • 1 GHz • 400Mhz memory bus • Soldered 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°/60°:60°		
		-	7" WIDE touch-screen • 4 wires resistive technology • Controller integrated on board		
			8,4" LCD TFT 4:3 • SVGA, 800x600, 256K colors • LED backlight, 400 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/80°:80°	0	
	•		8,4" touch-screen • 5 wires resistive technology • Controller integrated on board	- 0	
	•			10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400cd/m2 • Viewing angle L:R/U:L (typ.): 88°:88°/88°:88°	
			10,1" W Touch-Screen 16:10 • 5 wires resistive technology • Controller integrated on board	+ 2	
			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	+ 2	
DISPLAY &			12,1" LCD TFT 4:3 • SVGA, 800x600, 16M colors • LED backlight, 450 cd/m2 • Viewing angle L:R/U:L (typ.): 80°:80°/65°:75°		
DUCH-SCREEN	•		12,1" touch-screen • 5 wires resistive technology • Controller integrated on board	+ 4	
			12,1" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 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	+ 11	
			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	+ 7	
			15" LCD TFT 4:3 • XGA, 1024x768, 16M colors • LED backlight, 500 cd/m2 • Viewing angle L:R/U:L (typ.): 85°:85°/85°:85°		
	•		15" Touch-Screen 4:3 • 5 wires resistive technology • Controller integrated on board	+ 13	
			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	+ 8	
WARRANTY			12 months		

OPTIONS \mathbf{V} MPI • • Adapter cable from DB15F to DB9F (MPI/PPI) COMMUNICATION PORTS ٠ 1 x RS-485 (DB9M) isolated with terminations • Without MPI protocol support > note 2 + 1 ٠ WiFi & MODEM • IEEE 802.11b/g/n WiFi module, 2,4GHz · 2G/3G/4G-LTE modem module > note 2,3 -• Ý • ٠ Warranty extension to 18 month -WARRANTY • ٠ Warranty extension to 24 months

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the USB ports.

1: Price does not include Premium HMI Studio 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.350

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.347

2: Options signed by note 2 cannot be installed together

• •

3: WiFi & modem modules are not compliant with the ATEX certification

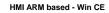
Warranty extension to 36 months

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HMI40-TFM fanless

Industrial Automation - Products & Configurations

			HMI40-TFM BASIC Basic configuration > note 1	POWER [W]
Basic configuration			LCD TFT 7" W • P-CAP projected capacitive multitouch Touch-Screen • ARM Cortex A9 i.MX6 DualLite, 1 GHz • 1 GB RAM • 4GB eMMC Pseudo-SLC • fanless • Windows Embedded Compact 7 Pro with Datalight Reliance Nitro file system • Premium HMI WinCE BASIC runtime • ASEM UBIQUITY PRO WinCE runtime • ASEM System Manager • Aluminum and tempered glass TrueFlat front panel • 12 months warranty	10
	Α	в	↓	
HMI SOFTWARE	•	•	Premium HMI WinCE BASIC runtime	-
HMI SUFTWARE	•	٠	Premium HMI ADVANCED WinCE runtime	-
			V	
REMOTE ASSISTANCE	•	•	ASEM UBIQUITY PRO WinCE runtime	-
		1	V	
FRONT PANEL	•	•	Aluminum and glass TrueFlat front panel with P-CAP projected capacitive touch-screen	-
			V	
PROCESSOR	•	•	ARM Cortex A9 dual core processor • i.MX6 DualLite • 1 GHz • 400Mhz memory bus • Soldered 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°/60°:60°	
			7" W Touch-Screen 15:9 • P-CAP projected capacitive multitouch touchscreen	
			10,1" W LCD TFT 16:10 • WXGA, 1280x800, 16M colors • LED backlight, 400cd/m2 • Viewing angle L:R/U:L (typ.): 88°:88°/88°:88°	
DISPLAY &	•		10,1" W Touch-Screen 16:10 • P-CAP projected capacitive multitouch touchscreen	+ 2
TOUCH-SCREEN			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 • P-CAP projected capacitive multitouch touchscreen	+ 7
	•		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°	+ 8
			15,6" W Touch-Screen 16:9 • P-CAP projected capacitive multitouch touchscreen	
WARRANTY	•	•	12 months	-

			OPTIONS		
				$\mathbf{+}$	
MPI	•	•	Adapter cable from DB15F to DB9F (MPI/PPI)		
COMMUNICATION PORTS	•	•	1 x RS-485 (DB9M) isolated with terminations • Without MPI protocol support > note 2		+ 1
WiFi & MODEM	•	•	IEEE 802.11b/g/n WiFi module, 2,4GHz • 2G/3G/4G-LTE modem module > note 2,3		-
				$\mathbf{+}$	
	•	•	Warranty extension to 18 month		
WARRANTY EXTENSION	•	•	Warranty extension to 24 months		
	•	•	Warranty extension to 36 months		

OPTIONS

NOTES

The power consumption of the configuration takes into consideration the maximum absorbed power of every component and does not include the consumption of the devices connected to the

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HMI40 family Technical Specifications

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		√
Fax Dramium LIMI dataila and no 250		

For Premium HMI details, see pg.350

ASEM UBIQUITY PRO main features

Control Center application to access the service with intuitive and ergonomic user interface for a comprehensive machine park management Optimized VPN with access limited to the remote device with Ubiquity Runtime

Optimized VPN with entire access to the complete remote device sub-network and serial passthrough

For ASEM UBIQUITY details, see pg.347

ASM (ASEM System Manager). Control Panel utilities

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Backup&Restore - Complete system cloning or selective backup and restore of the installed softwares
Antialiasing - Softens the characters matrix
Screensaver - Display brightness control or display switch off after an inactivity period
Touch Buzzer - Enable touch sound-feedback
eMMC Usage - Check the eMMC memory usage and evaluate the expected endurance
Kiosk Mode - Hide the O.S. explorer interface and run PHMI runtime in 'kiosk' mode
Language Settings - Easy installation of not european languages characters in HMI applications
Scrollbar - Allows to change the scrollbars sizes
System reboot - 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 HMI40 Aluminum • ASEM logo sticker HMI40-TF Aluminum TrueFlat • Polycarbonate Pantone Cool Grey 4C color • ASEM logo serigraph printed HMI40-TFM Aluminum and tempered glass TrueFlat HMI40 4/5 wires resistive technology Touchscreen HMI40-TF 4/5 wires resistive technology • overlaminated with OCA (Optical Clear Adhesive) HMI40-TFM projective capacitive touch-screen Frontal protection IP66, Enclosure type 4X (Indoor use only) Microsoft Windows Embedded Compact 7 Pro license with Datalight Reliance Nitro file system • Microsoft olographic sticker Operating System Software HMI Premium HMI WinCE BASIC / ADVANCED runtime license Remote assistance ASEM UBIQUITY WinCE PRO runtime license with ASEM sticker Utility ASEM System Manager Power supply Input voltage 18÷36V DC • Isolated power supply section integrated on board Motherboard "All-In-One" type • ASEM R231 ARM Cortex A9 dual core • i.MX6 DualLite • 1 GHz, 400 MHz system memory bus • GPU (Graphic Processor Unit) integrated Processor RAM memory 1 GB DDR3-800 • Soldered on board eMMC (Solid State Disk) 4GB Pseudo-SLC, 8bit, file system organization • for projects and applications Mass storage SD slot 1 x Slot MicroSD integrated on board - external access Rear access interfaces 2 x Ethernet 10/100/1000 Mbps (RJ45) • 2 x USB 2.0 (Type-A / host) 1 x RS-232/422/485 (DB15M) with MPI protocol support up to 187,5Kbit/s • Optional 1 x RS-485 isolated (DB9M) without MPI protocol support Rear access serial interfaces Environmental specifications Operating temperature: 0° ÷ +50°C • Storage temperature: -20° ÷ +60°C • Humidity: 80% (non-condensing) CE (EN 55022, EN 61000-3-2/3, EN 55024, EN 60950-1) • CULus LISTED (61010) • Approvals HMI40: ATEX 2014/34/UE Zone 22 II 3 D (only without WiFi & modem modules) HMI40-TF, HMI40-TFM: ATEX 2014/34/UE Zone 2/22 II 3 G D (only without WiFi & modem modules) Standard warranty 12 months • Warranty management by ASEM headquarters







HMI40 family

Technical Specifications

