



Esaware HMI

Control made easy

EW100 is the new generation of HMIs based on a modern, powerful architecture that combines visualization, supervision and control of your applications.

Esaware HMI products fully exploit the potential of the Windows Embedded Compact 7 operating system, the only solution that offers transparent interconnection with any company system together with the well-known reliability of the embedded operating systems.

Our standard HMI for visualization, control with Remote Maintenance Platform.

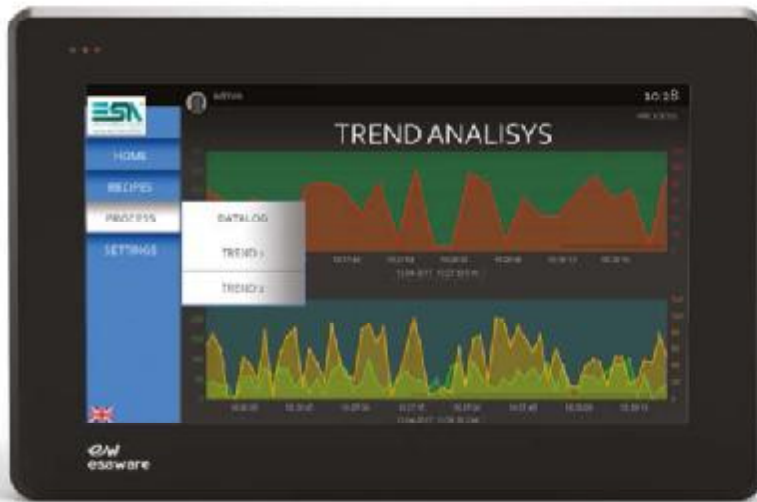
- Operating System Windows Embedded Compact 7 Pro
- Preloaded Everyware runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display



Our Esaware HMI solutions have a widescreen display that can be dimmed up to 100%, and they offer up to 40% more viewing surface compared to a traditional 4:3 display. In addition LED backlit displays excel in durability thanks to a significant energy saving.

In Esaware HMI, esthetics and functionality become one, thanks to the innovative design "Twist": an inclined surface that prevents the retention of dust and other corrosive substances. Safety and durability are further enhanced by a robust aluminum case with PTFE, non-stick, coating.





HMI



Features	EW104AA	EW107AA	EW112AA	EW115AA
Display Size	4,3"	7"	12,1"	15,6"
Display Technology	TFT			
Display Colors	262 K	16 M		
Display Backlight	LED			
Display Brightness (cd/m2)	400	600	800	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight Life (hours)	50 K			
Processor	ARM Cortex A8			
RAM	256 MB DDR3		512 MB DDR3	
Flash	3 GB			
Serial Ports	SP1 RS232/485-MPI-COM0; SP2 RS232/485-MPI-COM0; CAN; Profibus			
Ethernet	1 x 10/100Mb		2 x 10/100Mb	
USB Ports	1 x USB Host + 1 x USB Device		2 x USB Host + 1 x USB Device	
Cardbus Slot	1 x SDHC/MMC			
Power Supply (Vdc)	12 - 32			
Consumption (W)	4	7	15	19
Operating Temperature (°C)	-10 ... +50 (non condensing)			
Storage Temperature (°C)	-20 ... +65			
Humidity	<90% (non condensing)			
External dimensions (W/H/D) (mm)	166 x 112 x 45,9 (61 with double port)	202 x 142 x 45,9	340,5 x 238,5 x 48,6	436,5 x 285,5 x 54,4
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195 x 135	326 x 227	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)	IP66			
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) EAC / ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22			



Stainless steel HMI

Extreme durability. High endurance.

The 7" IT107W and 12" IT112 with AISI 304/V2A stainless steel bezel and TRUE-FLAT touch screen make cleaning quick, easy and effective.

Thanks to the front bezel's very high degree of protection, IP69K according to ISO EN 20653, these HMIs offer excellent chemical resistance to highly corrosive substances (such as cleaning chemicals, alkaline substances, etc...) and safeguards against frequent washing at high pressure, such as is normal in the food, pharmaceutical and chemical industries.

The large outside edge radius of curvature on the bezel (4 times the minimum required by law) prevents deposition and contamination of bacteria or microbes on the front. In addition, the front panel complies with DIN EN1672-2, EHEDG guideline and FDA requirements in the food, pharmaceutical and chemical.

The stainless steel HMIs are equipped with industrial displays and high brightness white LED backlight, touch screen technology with 4 or 5 wires that ensures optimal functionality even with superficial damage on the surface.

Stainless steel HMIs are equipped with:

- SP1 serial port (RS232 / RS485 with integrated MPI)
- USB port (type of device) for programming the terminal
- COM0 port (RS-232), USB port (host type) for connecting peripheral devices (headboards and mouse), for easy import/export data on USB key and printing reports
- Serial port SP2 (RS232 / RS485 with integrated MPI) CAN, Profibus-DP or ProfiNet
- Ethernet Port 10/100 Mbit
- Slot for Secure Digital and MultiMedia Card (MMC)
- Second slot for Compact Flash memory
- Extended power supply range 18..32 Vdc and extremely low power consumption
- Powered by Polymath



IP 69K



HMI

Features	IT107WX	IT112TX / IT112TY
Display Size	7"	12,1"
Display Technology	TFT	
Display Colors	65 K	
Display Life (hours)	50 K	
Display Backlight	LED	
Display Resolution (pixel)	800 x 480	800x600
Processor	Intel PXA 270	
RAM	64M	128M
Flash	32M	64M
Serial Ports	SP1 (232/485/MPI), SP2 (232/485/MPI), CAN, Profibus	
USB Port Host	1 x v 1.1	2 x v 1.1
USB Port Device	1 x v 1.1	2 x v 1.1
Cardbus Slot	1 x Secure Digital	
Compact Flash Slot	-	1 x Compact Flash
Ethernet	1 x 10/100 Mb	2 x 10/100 Mb
Hardware Clock	Supercapacitor 72h	
Consumption (W)	8	15
Power Supply (Vdc)	18 ... 32	
Operating Temperature (°C)	0 ... +50 (non condensing)	
Humidity	<85% (non condensing)	
External Dimensions (W/H/D) (mm)	202 x 142 x 39,2 (58,2 with double port)	336,3 x 256 x 62,9
Cut-out Dimensions (W/H) (mm)	194 x 134	314 x 240
Weight	-2,2	- 4,6
Protection degree (front)	IP69K	
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) EAC / ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22	



SmartClick HMI

Best cost-to-benefit ratio

SC HMI series is an entry-level HMI solution equipped with ABS plastic chassis that guarantees great sturdiness and durability. SC HMIs are available in different sizes 7" (SC107 and SC207) and 10,1" (SC110 and SC210). All wide displays with white LED back-lighting and TRUE-FLAT Touch screen. Advanced technology combined with wide connectivity.

SC series is equipped with

- Ethernet port for programming and communication with the field
- A dual RS232/RS485 serial port with COM0 port functionality, the ESA's OPEN serial port enables communication with any kind of custom solution

SmartClick Software



SmartClick is the software package for configuring SC HMIs. The enhanced features allow for the management of data structures, such as Recipes, Trends, Data Logs, active and historical alarms and User management in a quick and intuitive manner.

SmartClick incorporates advanced functionalities including:

- Rich object library
- Level project page management
- Importing/exporting project data
- Transferring stored data
- Project back-up and restore
- VB script with intellisense
- OFF-LINE and ON-LINE simulator
- Dictionary
- Automatic project storage
- Indirect addressing



Features SC107 SC207 SC110 SC210

Display Size	7" Wide		10.1"	
Display Technology			TFT	
Display Colors			65.536	
Display Backlight			LED	
Display Resolution (pixel)	800 x 480		1024 x 600	
Backlight life (hours)			30 K	
Processor			ARM	
RAM	64 MB	32 MB	64 MB	
Flash			64 MB	
First serial port	Port 1 (RS232/RS485/COM0)	Port 1 (RS232/485/MPI)	Port 1 (RS232/RS485/COM0)	Port 1 (RS232/RS485/MPI)
Second serial port	Port 2 (RS232/RS485/COM0)	-	Port 2 (RS232/RS485/COM0)	
USB Host port			1 x v 1.1	
USB Device port			1 x v 1.1	
Cardbus Slot			1 x Secure Digital/MMC	
Ethernet			1 x 10/100 Mb	
Chassis			ABS Plastic	
Hardware clock			Yes	
Clock battery	Battery (min. durability 5 yrs)		Supercapacitor 72h	
Power Supply (Vdc)			18 - 32	
Consumption (W)	5		8	
Operating Temperature (°C)			-10 ... + 50 (non condensing)	
Storage Temperature (°C)			-20 ... + 65	
Humidity			<85% (non condensing)	
External dimensions (W/H/D) (mm)	198,8 x 137,8 x 40,3	202 x 142 x 40	280 x 190 x 37,5	
Cut-out dimensions (W/H) (mm)	190,2 x 129,2	194 x 134	271 x 181	
Weight (kg)	- 0,8	- 1	- 1,4	
Protection degree (front)			IP 65	
Certification			CE	



Keyboard HMI

Don't touch, just press my keys.

ESA Automation offers the IT series with keyboard. For applications where direct tactile keyboard input is preferred to a touchscreen keyboard, the IT105TK is perfect. The HMI has a bright 5.7" TFT display with white LED backlight. IP66 protection on the front bezel and comprehensive communication options makes the IT105TK the obvious choice for all your harsh environments.

IT105TK is a terminal with 5,7" TFT Display, resolution 320×240, 65.536 colors.

These the main features:

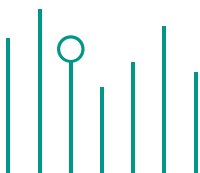
- 18 operative keys
- 12 function keys
- 11 alphanumeric keys
- Powered by Polymath

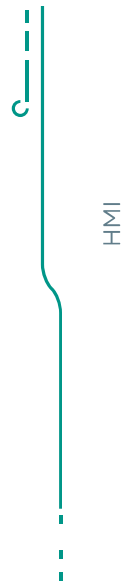


Each of the function keys available can be configured to suit different projects.



The device memory can be expanded with a SD card. Historic files created in runtime can also be saved.



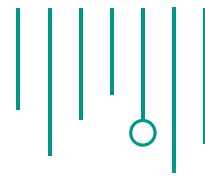


Features

IT105TK

Display Size	5,7"
Display Technology	Graphic LCD TFT
Display Colors	65.536
Display Backlight	LED
Display Resolution (pixel)	320 x 240
Backlight life (hours)	50 K
Operative keys	18
Function keys	12
Alphanumeric keys	11
Processor	Intel (R) PXA270
RAM (MB)	64
Flash (MB)	32
First port	SP1 (232/485/MPI)
Second port	SP2 (RS232/485/MPI), CAN, Profibus-DP
Ethernet	1 x 10/100 Mb
USB Host port	USB 1.1
USB Device port	USB 1.1
Cardbus Slot	Secure Digital / MMC
Power supply (Vdc)	18 - 32
Consumption (W)	- 10
Operating Temperature (°C)	0 ... +50 (non condensing)
Storage Temperature (°C)	-20 ... + 65
Humidity	<90% (non condensing)
External dimensions (W/D/H) (mm)	261,2 x 172,4 x 51,6 (70,6 with double port)
Cut-out dimensions (W/H) (mm)	243,5 x 147
Hardware clock	Supercapacitor 72h
Weight (kg)	- 1,5
Protection degree (front)	IP66
Certifications	CE/ cULus/ ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22 / DNV Vibration EN60068-2-6 / Shock EN60068-2-27 / Humidity EN60068-2-3





Text HMI

Evergreen solutions for durable control

Where a simple text based operator instructions and hardkey input is favoured, ESA Automation has the answer: Text HMIs offer cost effective but powerful user/machine interaction with surprising clarity.

These are some features available on Text HMIs:

- Applications quickly executed
- Alarms, passwords, recipes
- Mathematical functions
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated Profibus-DP and CAN
- Keyboard input/selection
- Powered by Polymath



VT50

HMI with text LCD display, 2 rows by 20 characters, 256 KB project, 8 operative keys (5 function keys). Available also with CAN interface.

VT60

HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 6 operative keys (4 function keys). Available also with CAN interface.



VT150

HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable function keys). Available with Profibus-DP network or with CAN interface.

VT160

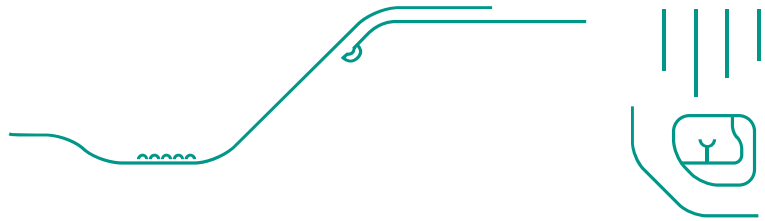
HMI with text LCD display, 4 rows by 20 characters, 256 KB project, 25 operative keys (5+5 customizable function keys), 18 customizable auxiliary keys. Available with Profibus-DP network.



VT170

HMI with text LCD display, 4 rows by 20 characters, 320 KB project, clock, 32 KB recipes, 36 operative keys (12 customizable function keys).





HMI

Features	VT050	VT060	VT150	VT160	VT170
Display Type	Text LCD				
Display Backlight	LED				
Columns by Rows (text)	20 x 2	20 x 4			
Display area size (mm h-v)	73,5 x 11,5	70,4 x 20,8			
Text character Matrix (pixels h-v)	5 x 7				
Character dimensions (mm h-v)	3,2 x 5,5	2,95 x 4,75			
Contrast adjustment	Trimmer				
Character set	Ascii, Katakana				
Project Memory (bytes)	256K			320K	
Recipes/Alarm buffer (bytes)	-			32K/8K RAM	
MSP serial port	RS-232/422/485/TTY 20 mA				
ASP serial port	-			RS-232 (9 pin)	
Connection with optional keyboard	-	Yes	Integrated	-	
Integrated network (optional)	CAN	CAN, Profibus-DP	Profibus-DP	-	
Optional	Profibus-DP, Interbus-S, CAN				
ESA-Net (variables)	Client			Server (128), Client	
Power supply (Vdc)	18 - 32				
Consumption (W)	5	15		9	
Operating temperature (°C)	0 ... +50 (non condensing)				
Storage temperature (°C)	-20 ... +60 (non condensing)				
Humidity	<85% (non condensing)				
External dimensions (W/H/D) (mm)	166 x 86 x 41	166 x 86 x 41	148 x 188 x 41	296 x 188 x 42	126 x 196 x 60
Cut-out dimensions (W/H) (mm)	157x77	157x77	123 x175	See installation sheet	107 x 178
Weight (kg)	0,5	0,5	0,7	0,88	0,9
Protection degree (front)	IP 66		IP 65		
Project Languages	4	6		8	
Password levels/Bit passwords	-/8	10/8			
Pages/Fields per page	127/12	1024/32		1024/16	
Format of variables	DEC, HEX, BIN, BCD, ASCII, Floating point				
Dynamic texts/Lists of images	Value depends on dimensions of project memory				
ISA alarms/Info-messages	-/128	-/1024		1024/1024	
Help messages (pages/info messages/alarms)	127/128/-	1024/1024/-		1024/1024/1024	
Alarm history buffer	-			256	
Recipes (Number/Variables per recipe)	-			1024/256	
Macros (Number/Commands per macro)	-	1024/16			
Print pages (Total/Number of fields per page)	-			1024/64	
Automatic operations/Timers	20/20	32/32		-	
Equations	32				
Keyboard Operative/function/alphanumeric keys	8/5/-	6/4/-	9/5/11	9/23/11	13/12/11
Certifications	CE, cULus				



Graphic HMI

Evergreen solutions for durable control

For those applications where more detail is needed than simple text and hard key input is important, the Graphic HMI is invaluable. Capable of importing advanced graphics and having up to 28 keys, these powerful units fulfill a common industrial requirement.

These are some features available on graphic HMIs:

- On-screen graphics
- Alarms, passwords, recipes
- Use of Windows® fonts
- Importation of graphic images in any format
- Moving graphic objects
- Two drivers run simultaneously
- Serial or parallel printing
- Integrated CAN
- Keyboard input/selection
- Powered by Polymath



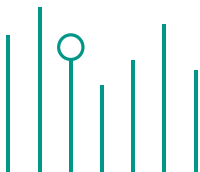
VT130

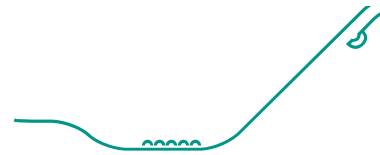
HMI with 3" graphic LCD display, STN 4 tones of blue, 160x80, 512 KB project, clock, 128 KB recipes, 25 operative keys (5 function keys, 20 customizable). Available also with Profibus-DP network



VT330

HMI with 10,4" graphic LCD display, 256 colors, 30 rows by 80 characters, VGA (640 x 480), MSP (RS232/422/485/TTY), ASP (RS232/485), LPT (Centronics), 2,3 MB project, clock, 256 KB recipes, 74 operative keys (28 function keys, 16 customizable)





Features

VT130

VT330

Display Type	Graphic LCD 4 tones of blue STN	Graphic LCD 256 colors TFT
Display Backlight	White LED	CCFL
Display Resolution (pixel)	160 x 80 (3")	640 x 480 (10,4")
Backlight life (hours)	50k	30k
Display area size (mm h-v)	67 x 37	211,2 x 158
Columns by Rows/Character dimensions	Depending on used Font	
Contrast adjustment	Software	
Character set	Programmable fonts/TTF Windows* (also Unicode)	
Project (text+graphic) (bytes)	640K	640K+1792K
Recipes/Alarm buffer (bytes)	16K/8K FLASH	256K/8K RAM
Memory card for backup/Expansion (bytes)	-	8M/4M (graphic)
MSP serial port	RS-232/422/485/TTY 20mA	
ASP serial port	RS-232 (8 pin)	RS-232/RS485 (15 pin)
LPT parallel port	-	Centronics
Integrated (option)	Profibus-DP	-
Optional	Profibus-DP, CAN, Interbus-S	
ESA-Net (variables)	Client	Server (256), Client
Power supply (Vdc)	18 - 32	
Consumption (W)	10	15
Operating temperature (°C)	0 ... +50 (non condensing)	
Storage temperature (°C)	-20 ... +60	
Humidity	< 85% (non condensing)	
External dimensions (W/H/D) (mm)	166 x 100 x 39,6	435 x 260 x 74
Cut-out (W/H) (mm)	157 x 91	403 x 240
Weight (kg)	0,5	4
Protection degree (front)	IP 66	
Project Languages	4	8
Password levels/Bit passwords	10/ 8	
Pages/Fields per page	64/22	1024/304
Format of variables	DEC, HEX, BIN, BCD, ASCII, Floating point	
Dynamic texts/Lists of images	Dynamic texts/Lists of images Value depends on dimensions of project memory	
ISA alarms/Info-messages	256/256	1024/1024
Help messages (pages/info messages/alarms)	64/256/256	1024/1024/1024
Alarm history buffer	220	256
Recipes (Number/Variables per recipe)	128/256	1024/512
Trends (Memory/Number of samples)	-	8192/640
Pipelines (Number/Total bytes)	-	64/512
Print pages (Total/Number of fields per page)	64/128	1024/128
Automatic operations/Timers Equations	-	32/32/32
Max bargraphs per page (taken together with fields)	32	304
Indicators,potentiometers,selectors per page	-	256
Project images	BMP, JPEG, TIFF, etc	BMP, JPEG, TIFF, PSD, WMF, PNG, EPS, etc
Hardware clock	Supercapacitor 72 hours	With battery
Operative/function/alphanumeric keys	10/5/10	19/28/27
Certifications	CE/ cULus ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22	CE/ cULus



HANDHELD HMI

The power in your hands

Esa Automation offers the handheld solution HMI, with different kind of communication interface, serial and CAN. The handheld HMI is connected to the field with the standard cable. In the handheld solution you find 10 programmable Soft Key. The handheld solution is customizable with a different kind of buttons on the front, and on the rear we have the three-way “operator present” button.

These are main features of ESA Automation handheld:

- Over 150 communication protocols for PLCs, inverters, temperature controllers and other devices.
- Fieldbuses connections to MPI and CANopen (only VT505H)
- Up to 150 pages with help, 1500 variables
- Multilanguage, including Oriental and Cyrillic characters
- Recipe handling, Alarms, 10 levels of Passwords
- Moving Graphical objects
- Connection to serial printer
- 10 Function Keys
- Three-way “operator present” button
- Mushroom-shaped start and stop button (lights up with “start”)
- IP65 protection all around
- Powered by Polymath



VT505H HMI

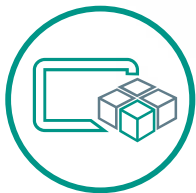
with 5,7” graphic 4 blue levels STN LCD display (320 x 240), 16 rows by 40 characters, Touch-Screen, 640 KB project, software clock, 16 KB recipes, 10 mt cable



VT525H HMI

with 5,7” graphic 16-color STN LCD display (320 x 240), 16 rows by 40 characters, Touch-Screen, 960 KB project, hardware clock, 32 KB recipes, 10 mt cable

Features	VT505H	VT525H
Display Size	5,7"	
Display Technology	STN	
Display Colors	4 tones of blue	16 colors
Display Backlight	CCFL	
Display Resolution (pixel)	320 x 240	
Backlight life (hours)	45k	50k
Touch Screen Matrix (cell dimension in pixels h-v)	20 x 16 (16x15)	
Display area size (mm h-v)	115,2 x 86,37	
Columns by Rows/Character dimensions	Depending on used Font	
Contrast adjustment	Software	
Character set	Programmable fonts/TTF Windows* (also Unicode)	
Project memory (text+graphic) (bytes)	640K	960K
Recipes/Alarm buffer (bytes)	16K/- FLASH	32K/8K FLASH
MSP serial port	RS-232/422/485/TTY 20 mA - on VTHCB (excluded CAN version)	
ASP serial port	-	RS-232 - on VTHCB (excluded CAN version)
Integrated (option)	CAN	-
ESA-Net (variables)	Client	
Power supply (Vdc)	18 - 32	
Consumption (W)	10	
Operating temperature (°C)	0 ... + 50 (non condensing)	
Storage temperature (°C)	-20 ... + 60	
Humidity	<85% (non condensing)	
External dimensions (W/H/D) (mm)	250 x 222 x 100	
Weight (kg)	3	
Protection degree	IP 65 on all sides	
Project Languages	4	6
Password levels/Bit passwords	10/8	
Pages/Fields per page	128/34	150/48
Format of variables	DEC, HEX, BIN, BCD, ASCII, Floating point	
Dynamic texts/Lists of images	Value depends on dimensions of project memory	
ISA alarms/Info-messages	-/256	256/256
Help messages (pages/info messages/alarms)	128/256/-	150/256/256
Alarm history buffer	-	220
Recipes (Number/Variables per recipe)	128/256	
Macros (Number/Commands per macro)	1024/16	
Print pages (Total/Number of fields per page)	-	64/128
Automatic Operations/Timers/Equations	32/32/32	
Max bargraphs per page (taken together with fields)	34	48
Project images	BMP, JPEG, TIFF, PSD, WMF, PNG, EPS, ECC...	
Buttons per page	Number of buttons corresponding to the number of Touch-Screen cells	
Hardware clock	-	Supercapacitor 72 hours
Function keys	10	
Certifications	CE/cULus	



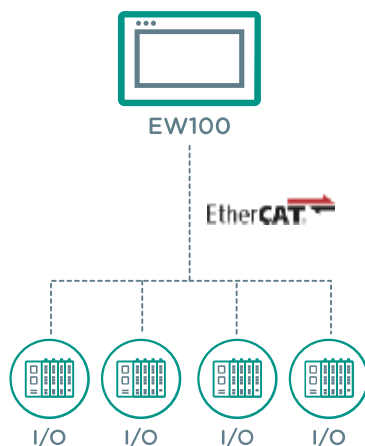
Esaware HMI + SoftPLC

Control made easy

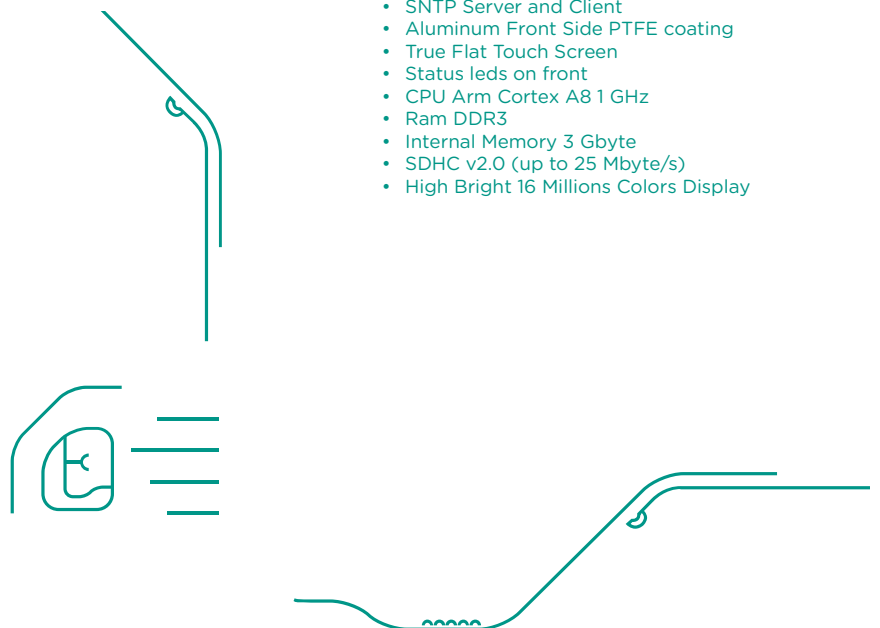
Our HMI + SoftPLC CoDeSys + Ethercat master for visualization/control through remote I/O and Remote Maintenance Platform. A solution for the control and command of any kind of industrial application. Thanks to the Ethercat Master interface it is possible to connect different devices to the external environment.

These are EW100AB main features:

- Preloaded CoDeSys v.3.5 Runtime
- Embedded NVRam
- Watchdog Sw
- Watchdog Hw
- Ethercat Master interface on board
- Operating System Windows Embedded Compact 7 Pro
- Preloaded Everywhere runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display

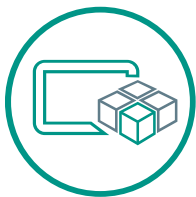


The EW100AB is complemented with Ethercat "real time" Ethernet system enabling high-performance control and communication of compatible I/O and motion control devices.





Features	EW104AB	EW107AB	EW112AB	EW115AB
Display Size	4,3"	7"	12,1"	15,6"
Display Technology	TFT			
Display Colors	262 K	16 M		
Display Backlight	LED			
Display Brightness (cd/m ²)	400	600	400	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight life (hours)	50 K			
Processor	ARM Cortex A8			
RAM	256 MB DDR3		512 MB DDR3	
Flash	3GB			
NVRAM	32Kb (SoftPLC)			
Scan Time (µSec)	Typical 30			
Serial Ports	SP1 RS232/485-MPI-COM0; SP2 RS232/485-MPI-COM0; CAN; Profibus			
Ethernet (Ethercat Master)	1 x 10/100Mb		2 x 10/100Mb	
USB Ports	1 x USB Host + 1 x USB Device		2 x USB Host + 1 x USB Device	
Cardbus Slot	1 x SDHC/MMC			
Power Supply (Vdc)	18 - 32			
Consumption (W)	4	7	15	19
Operating Temperature (°C)	-10 ... + 50 (non condensing)			
Storage Temperature (°C)	-20 ... + 65			
Humidity	<90% (non condensing)			
External dimensions (W/H/D) (mm)	166 x 112 x 45,9 (61 with double port)	202 x 142 x 45,9	340,5 x 238,5 x 48,6	436,5 x 285,5 x 54,4
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195 x 135	326 x 227	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)	IP 66			
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22			



Esaware HMI + SoftPLC + I/O

Control made easy

Our HMI + SoftPLC CoDeSys + Ethercat master + I/O for visualization/control through onboard I/O and Remote Maintenance Platform. The embedded complete solution for the control and command of any kind of industrial application. Thanks the EW600 I/Os it is possible to create extremely flexible configurations.



With the addition of an integrated I/O backplane and Esaware EW600 local I/O, the EW100AC is the complete automation control system. The EW100AC "all in one" solution can be expanded with Ethercat "real time" distributed I/O, delivering ultimate flexibility and efficiency.

These are EW100AC main features:

- Backplane for EW600 I/O
- Preloaded CoDeSys v.3.5 Runtime
- Embedded NVRam
- Watchdog Sw
- Watchdog Hw
- Ethercat master interface on board
- Operating System Windows Embedded Compact 7 Pro
- Preloaded Everyware runtime
- SNTP Server and Client
- Aluminum Front Side PTFE coating
- True Flat Touch Screen
- Status leds on front
- CPU Arm Cortex A8 1 GHz
- Ram DDR3
- Internal Memory 3 Gbyte
- SDHC v2.0 (up to 25 Mbyte/s)
- High Bright 16 Millions Colors Display



Features	EW104AC	EW107AC	EW112AC	EW115AC
Display Size	4,3"	7"	12,1"	15,6"
Display Technology	TFT			
Display Colors	262 K	16 M		
Display Backlight	LED			
Display Brightness (cd/m ²)	400	600	400	300
Display Resolution (pixel)	480 x 272	800 x 480	1280 x 800	1366 x 768
Backlight life (hours)	50 K			
Processor	ARM Cortex A8			
RAM	256 MB DDR3		512 MB DDR3	
Flash	3GB			
I/O Slot	4	8	12	16
NVRAM	32Kb (SoftPLC)			
Scan Time (µSec)	Typical 30			
Serial Ports	SPI RS232/485-MPI-COM0 ; SP2 RS232/485-MPI-COM0 ; CAN ; Profibus			
Ethernet (Ethercat Master)	1 x 10/100Mb		2 x 10/100Mb	
USB Ports	1 x USB Host + 1 x USB Device		2 x USB Host + 1 x USB Device	
Cardbus Slot	1 x SDHC/MMC			
Power Supply (Vdc)	18 - 32			
Consumption (W)	4	7	15	19
Operating Temperature (°C)	-10 ... + 50 (non condensing)			
Storage Temperature (°C)	-20 ... + 65			
Humidity	<90% (non condensing)			
External dimensions (W/H/D) (mm)	166 x 112 x 45,9 (61 with double port)	202 x 142 x 45,9	340,5 x 238,5 x 48,6	436,5 x 285,5 x 54,4
Cut-out dimensions (W/H) (mm)	158,5 x 104,5	195,0 x 135,0	326,0 x 227,0	422,5 x 271,5
Weight (kg)	0,5	0,8	2,5	4,5
Protection degree (front)	IP 66			
Certifications	CE / EN60068-2-6 / EN60068-2-27 / Humidity EN60068-2-30 / cULus (Certificate no. E189179) / EAC ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22			