



Esaware Industrial Monitor

Innovative design. Elegant technology.

With the EW300 series, Esaware offers a wide range of industrial monitors that combine innovative and elegant design with the highest industrial engineering standards. EW300 Industrial Monitors have been designed to ensure high performance and durable reliability in harshest industrial environments.

All EW300 monitors share the same well designed bezel as the EW200 Panel IPCs.

The main features of EW300 Industrial Monitors are:

- LCD wide screen
- Resistive or capacitive touchscreen
- Multi Video inputs
- Multi touchscreen outputs.
- Reduced depth



Detail of true-flat touch screen along with twisted aluminum bezel and ATEX IP66 frontal USB port.



Our unique Twist design and the PTFE non-stick coating prevent dust and dirt accumulation on the bezel.



Features

EW315

EW322

Display Size	15,6"	21,5"
Display Technology	TFT	
Display Colors	16,7M	
Display Brightness (cd/m²)	300	
Contrast	500	5000
Viewing Angle	85/85/80/80	89/89/89/89
Display Resolution (pixel)	1366x768	1920x1080
Backlight life (hours)	50k	
Touch Technology	Resistive (5 wires) / Capacitive (PCT 10 touches)	
Bezel /Chassis	Aluminium - PTFE no-sticking coating / Sheet Steel	
Front USB	1x USB 2.0 type A - rear 1x USB type B	
Rear touch outputs	1x USB 2.0 type B + 1x RS232 sub-din 9pins	
Video input	DVI-D + VGA	
Power Supply (Vdc)	18...30	
Operating Temperature (°C)	0 ... + 50 (non condensing)	
Storage Temperature (°C)	-20 ... + 65	
Humidity	<85% (non condensing)	
External dimensions (W/H/D) (mm)	437x286x58	572x363x61
Cut-out dimensions (W/H) (mm)	422,5x271,5	554,5x345,5
Weight (kg)	5	9,5
Protection degree (front)	IP66	
Certifications	CE / EN61000-6-2 / EN61000-6-4 / EN60068-2-6/27/30 ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22	



Industrial Monitor

Endurance and reliability

The ESA Automation XM7 series offers a complete range of Industrial Monitors.

Affordable, complete, elegant, reliable, versatile: XM7 industrial monitors family represents the perfect solution for any automation requirement, from industrial to building automation and security to utility. The XM7 provides flexible, display, control and connectivity to any category of system.

Precise design, use of high quality components, extreme mechanical sturdiness.

The rugged 6mm aluminum or INOX bezel make XM7 suitable for all harsh environments such as those with high concentrations of dust, intense vibrations or high temperatures.

The XM7 aluminum series are designed, built and tested to comply with the ATEX Directives. (Zone 2/22, category 3 G/D) and EN60068-2-6/27/30 enabling these robust units to safely withstand vibration, shock and humidity expected in these severe environments.

Main features of XM7 series:

- Wide choice of LCD and touch screens, from 7" wide up to 19"
- LCD 4:3 with LED backlit
- Multi inputs for video signals.
- Multi outputs for touch screen
- Elegant and meticulous industrial design
- Front bezel in aluminum finishing.
- INOX bezel fitted with true flat touch screen
- Frontal USB on aluminum version.
- IP66 protection degree



Features	XM7W7	XM708	XM712	XM715	XM717	XM719
Display Size	7" Wide	8,4"	12,1"	15"	17"	19"
Bezel aluminium	6mm thickness					
Technology	TFT 262 K colors			TFT 16,2 M colors	TFT 16,7 M colors	
Display Backlight	LED					
Brightness cd/m2	500	450	370	350	380	400
Contrast	600:1			700:1	1000:1	
Viewing angle H-V	70-60	75-75	140-120		170-170	
Lamp life (min a 25°C)	50k					
Resolution (pixel)	800 x 480	800 x 600	1024 x 768		1280 x 1024	
Touch technology	Analog resistive (4 wires)		Analog resistive (5 wires)			
Touch output	RS232 + USB					
USB frontal IP66 / USB rear (2.0)	1 x					
Green Led Power ON	1 x					
VGA/DVI-I */S-Video/Video composite	1 x (* digital signal only single-link)					
External (WxHxD)	228 x 155 x 66,7	250 x 190 x 66,7	336 x 256 x 56,7	425 x 300 x 57,2	446 x 346 x 59,7	508 x 384 x 64,2
Cut-out (WxH)	219 x 145	241 x 180	321 x 240	393 x 275	426 x 326	477 x 353
Power supply (Vdc)	18...30 max 50W					
Power consumption (W)	30		35		45	
Protection degree	IP66 front					
Operating temperature (°C)	0...50 (non condensing)					
Storage temperature (°C)	-20...+65					
Humidity	90% (non condensing)					9,00
Weight (Kg)	2,2	2,6	4,0	6,0	7,5	
Certifications	CE / ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22 Enviromental EN60068-2-6/27/30 / Immunity EN61000-6-2 / Emission EN 61000-6-4					



Stainless Steel Industrial Monitor

Extreme durability. High endurance.

The ESA Automation XM7 series is available with Stainless steel front bezel.

The rugged 6mm INOX bezel makes XM7 suitable for all harsh environments such as those with high concentrations of dust, intense vibrations or high temperatures.

INOX V2A stainless steel products are particularly suited for environments where compliance with health and hygiene norms are required.

The bezel made of INOX stainless steel includes the true-flat resistive touch screen.

The XM7 INOX series conforms to FDA 21 / EN1672-2 and they are the optimal solution for Food, Pharmaceutical and Chemical industries.

The XM7 INOX series is equipped with a true-flat resistive touch screen meeting Food Processing, Pharma and Chemical industry safety and hygiene requirements.

The XM7 INOX V2A stainless steel are designed, built and tested to comply with the ATEX Directives. (Zone 2/22, category 3 G/D) and EN60068-2-6/27/30 enabling these robust units to safely withstand vibration, shock and humidity expected in these severe environments.

Main features of XM7 INOX V2A stainless steel series:

- Wide choice of LCD and touch screens, from 7" wide up to 19"
- LCD 4:3 with LED backlit
- Multi inputs for video signals
- Multi outputs for touch screen
- Elegant and meticulous industrial design
- Bezel available in INOX stainless steel finish with TRUE FLAT touch screen
- IP69K protection degree on 7" and 12,1"
- IP66 protection degree on 15" and 19"

Features	XM7W7	XM712	XM715	XM719
Display Size	7" Wide	12,1"	15"	19"
Bezel Inox V2A	6mm thickness			
Technology	TFT 262 K colors		TFT 16,2 M colors	TFT 16,7 M colors
Display Backlight	LED			
Brightness cd/m2	500	370	350	400
Contrast	600:1		700:1	1000:1
Viewing angle H-V	70-60		140-120	170-170
Lamp life (min a 25°C)	50k			
Resolution (pixel)	800 x 480	800 x 600	1024 x 768	1280 x 1024
Touch technology	Analog resistive true flat (4 wires)		Analog resistive true flat (5 wires)	
Touch output	RS232 + USB			
USB frontal IP66 / USB rear (2.0)	None			
Green Led Power ON	None			
VGA/DVI-I */S-Video/Video composite	1 x (* digital signal only single-link)			
External (WxHxD)	228 x 155 x 66,7	336 x 256 x 56,7	425 x 300 x 57,2	508 x 384 x 64,2
Cut-out (WxH)	219 x 145	321 x 240	393 x 275	477 x 353
Power supply (Vdc)	18...30 max 50W			
Power consumption (W)	30	35		45
Protection degree	IP69K front 7" / 12,1" - IP66 front 15" / 19"			
Operating temperature (°C)	0...50 (non condensing)			
Storage temperature (°C)	-20...+65			
Humidity	90% (non condensing)			
Weight (Kg)	3,0	5,0	7,0	10,5
Certifications	CE / ATEX 2014/34/UE directive Group II Category 3 G D Zone 2/22 Enviromental EN60068-2-6/27/30 / Immunity EN61000-6-2 / Emission EN 61000-6-4			

EW327

27" Full HD TFT industrial monitor



A modern and robust glass design industrial monitor that does fit perfectly any industrial application.

The full HD resolution and bright 16 million colour display, the capacitive multitouch and the true flat design let the user create a very high level and modern user interface.

Thanks to the 27" and full HD display several software windows can be grouped into the same page providing to the user an immediate and complete control of the machine.

FEATURES

- + 27" Full HD TFT high brightness display
- + VGA and DVI video input
- + Capacitive multitouch
- + Wide view angle

APPLICATIONS

- + Packaging Machine
- + Plastic and rubber machine
- + Steel and Wood working machine
- + CNC
- + Food processing machine
- + Robotics

EW327

Product Description.

MODEL	EW327
Control buttons	OSD control buttons on back to adjust contrast and brightness
External (W x H x D)	396.5mm x 657.5mm x 58 mm (15.61" x 25.88" x 2.28")
Cut out (W x H)	380.5mm x 641.5mm (14.98" x 25.25")
Material	Front: Aluminum - magnesium alloy anodizing ; Back: Metal paint
Installation	Embedded
Power supply	DC 24V
Power	30W
Video ports	VGA & DVI
Net weight	9KG
Size	27" Full HD TFT
Resolution	1920 x 1080
Color	16.7MB
Display (W x H)	336.15mm x 597.6mm (13.23" x 23.53")
Back light	LED
Pixel pitch	0.311 x 0.311
Brightness	300cd/ m
Contrast	3000 : 1
View	(L)150 / (R)150 / (U)150 / (D)150
Type	Multi capacitive
Transmittance	> 85%
Touch signal	USB
Working temperature	-0~50°C (-32~122)
Storage temperature	-20~60°C (-4~140)
Humidity	5~95%
Working vibration	SSD applied: 1.5 Grms, IEC 60068 -2-64, random, 5 ~ 500 Hz, 1 hr/ axis
Working shock	SSD applied: 10 G, IEC 60068 -2-64
IP	IP65 front
EMC	CE/ FCC Class A compliant

DIGITAL SIGNAGE MONITOR

55" and 65" Android 4K
HD industrial class digital
signage monitor



LUMIA355



LUMIA365

LUMIA355 55" and LUMIA365 65" Android 4K HD industrial class digital signage monitors combine innovative and elegant design with the highest smart performances. Engineered according to the principles of Industry 4.0, they promote production efficiency through their responsiveness and ease of using.

APPLICATIONS

- + Visualization of the industrial line efficiency and production data dashboards
- + Packaging production line
- + Textile Industry

FEATURES

Powerful hardware

- + Android 7.1, RK3288 Quad core processor
- + 4K HD industrial LED display
- + Wifi/RJ45/RS232/USB/GPIO/IR ports
- + True flat front tempered glass front
- + IP55 aluminum front and steel back
- + Capacitive touch screen or without touch screen
- + Multi Video input

Intelligent System

- + Native and web apps supported
- + Quad viewer, up to 4 source signals on one screen
- + Media player integrated
- + HTML5 browser integrated, Play and control online content
- + Energy-saving automatic backlight control

Easy use and control

- + Install and launch apps remotely
- + Operate, update, maintain remotely
- + Develop and launch your own content
- + VESA (400mm) and wall fix

Android based industrial monitor

MODEL		LUMIA 355CVDS000 - LUMIA355NVDS000 (no touch)	LUMIA 365CVDS000 - LUMIA365NVDS000 (no touch)
Size		1348mm*819mm*105mm(L*W*T)	1610mm*1000.4mm*105mm(L*W*T)
Color		Front black, Industrial white back.	Front black, Industrial white back.
Display	Size	55inches (LG) 4K industrial LED	65inches (LG) 4K industrial LED
	Resolution	3840*2160	3840*2160
	Display size	1209.6 × 680.4 mm	1428.48 × 803.52 mm
	Brightness	500cd/m2	500cd/m2
	Contrast	02/03/1900 12:01	02/03/1900 12:01
	Screen ratio	01/01/1970 16:09	01/01/1970 16:09
	Color	16.7M (8-bit + Hi-FRC) , CIE1931 72%	16.7M (8-bit + Hi-FRC) , CIE1931 72%
	View angle	88/88/88/88	88/88/88/88
	Respond time	8 (Typ.)(Tr+Td) (ms)	8 (Typ.)(Tr+Td) (ms)
Board		RK3288 Quad core Cortex A17, double channel LVDS, ARM Mali-T764 GPU. TE, ASTC, AFBC memory compression, support 2160P and 4k H.264 HP 1080P@30fps video decoding	
		1.6 GHz	
		RAM: 2GB	1.6 GHz
		Flash: 16G	Flash: 16G
		1xTF slot	1xTF slot
		1xGPIO	1xGPIO
		1xIR	1xIR
		2xRS232	2xRS232
		2xUSB 2.0	2xUSB 2.0
		1xRJ45	1xRJ45
		1xHDMI	1xHDMI
		1xVGA	1xVGA
		1xWIFI	1xWIFI
		Android version 7.1	Android version 7.1
PCAP		55" water proof	65" water proof
	Type	Projected capacitive touch screen	Projected capacitive touch screen
	Points	10points	10points
	Transmittance	0.95	0.95
	Resolution	4096x4096	4096x4096
	Life	50000hours	50000hours
	Touch respond time	<=3ms	<=3ms
	Hardness	Mohs 7	Mohs 7
Sound		Built-in speakers	Built-in speakers
Power supply		100-240VAC,50/60HZ	100-240VAC,50/60HZ
Power		190W	230W
Working temperature		-10°C~65°C	-10°C~65°C
Working humidity		10%-90%	10%-90%
Storage temperature		-20°C-60°C	-20°C-60°C
IP		IP55 front	IP55 front
Main features	Customize split screen:	support 1-8 view areas	support 1-8 view areas
	Multi management	multi-level and users manage	multi-level and users manage
	Images formats	.jpg, jpeg.bmp,.png.gif.	.jpg, jpeg.bmp,.png.gif.
	Video formats	.avi, .mkv,.mov,.mp4,.mpg,.is,.vob,.trp,.flv,.wmv	.avi, .mkv,.mov,.mp4,.mpg,.is,.vob,.trp,.flv,.wmv
	Audio formats	.mp3, .wma, .ogg, .aac, .wav	.mp3, .wma, .ogg, .aac, .wav
	File formats	pdf, word, excel, .ppt	pdf, word, excel, .ppt
	Network	3G/4G, wifi, LAN	3G/4G, wifi, LAN
	On/Off	Scheduled on/off	Scheduled on/off
	Remote control	Volume and bright remotely control	Volume and bright remotely control
	U disk	support U disk import files and pictures	support U disk import files and pictures
Certification	CE	2014/53/EU	2014/53/EU



ERGO

All in one platform solution

Connect
ideas.
Shape
solutions.

ESA S.p.A. | www.esa-automation.com |

Overview

Smart Tech. Ease of Use.

IPC	SOFTWARE
HMI	IIOT & CLOUD
HMI + SOFT PLC	EMS
PAC	REMOTE ASSISTANCE
WEB PANEL	SCADA
INDUSTRIAL ROUTER	CNC & MOTION
I/O	
DRIVE & MOTOR	



KVM OPTION



ERGO is the new all-in-one machine control system by ESA. A solution designed to deliver the highest level of flexibility, ergonomics and customization. With a true flat projected capacitive multi-touch screen and a 21.5" million colors TFT display, it offers a very wide choice of configurations and customizable options, including buttons, touch keypads and even an additional 12.1" HMI. In order to maximize productivity, ERGO comes into two true flat versions: classical and 120° ergonomic. Finally, thanks to its rough design and easy installing system, it can be installed in any work environment (even the harshest ones), both in landscape and in portrait mode.

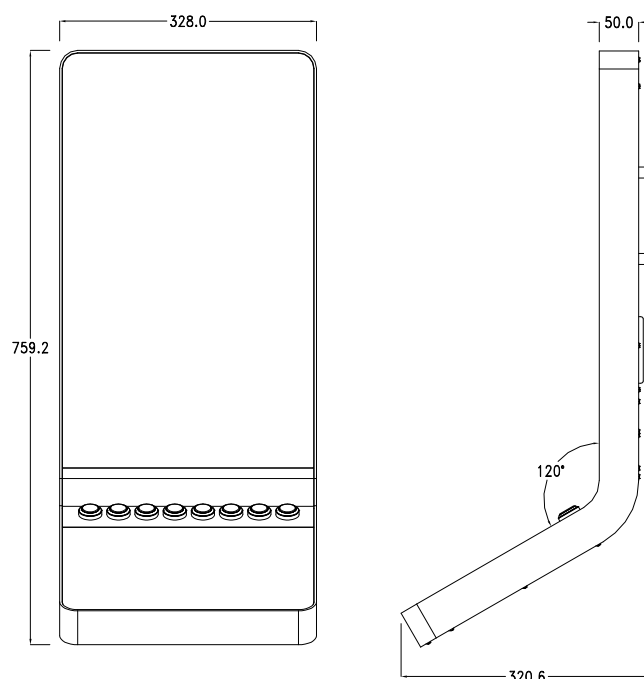
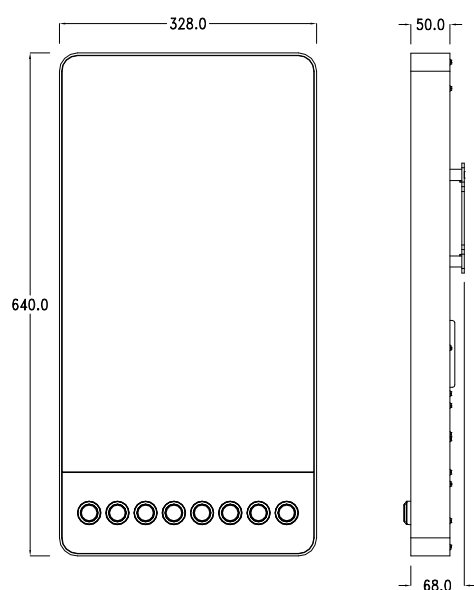
FEATURES

- + Industrial Personal Computer All-in-One arm mounted
- + LCD 21.5" wide
- + Resolution 1920x1080
- + LED backlight 50 K/h
- + 16.7M colors
- + Mounting horizontal VESA 100
- + P-CAP Touch screen
- + CPU Intel® Core™ i3-4010U Dual Core 1.7GHz SoC, Fanless
- + 2x miniPCIe slots on the motherboard (mPCIe/mSATA cards)
- + RAM memory 8 GB DDR3L SO-DIMM 204 PIN 1333/1600 MHz single channel

APPLICATION

- + Packaging Machine
- + Plastic and rubber machine
- + Steel and Wood working machine
- + CNC
- + Food processing machine
- + Robotics

- + SSD 256 GB SATA 2.5"
- + 1 serial port RS232
- + 4 USB (3.0) on the back , 1 on the front
- + 2 DP video ports (DP active cable required)
- + 2 Ethernet ports 10/100/1000 Mbps RJ45 - Intel I210 / I218
- + Power supply 24 VDC
- + Protection degree IP65
- + Operating Temperature 0...50°C
- + Storage Temperature -20...+65°C
- + Humidity 85% no condensing



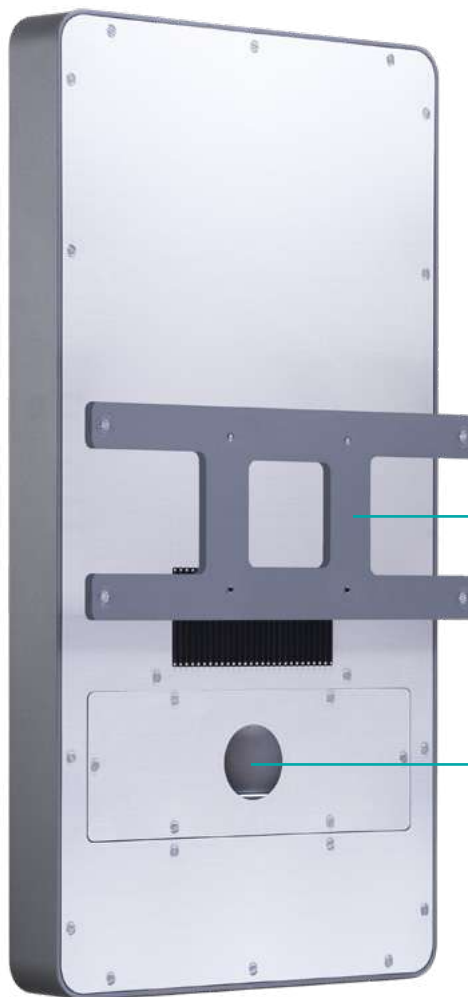
Front view

Back view

LCD 21.5" Touch
1920 x 1080



VESA arm
attachment



Compatible with
any cable gland
($\varnothing$ 42mm/ IP69K)

Portrait Configuration



Landscape Configuration





1 button of your choice + RFID



Empty slots



Custom button slots



1 button emergency



7 button slots + 1 emergency



Many options for different users

Thanks to its high level of configurability, ERGO perfectly embodies the new concept of human-machine interface 4.0. The device is equipped with a flat capacitive multi-touch screen and a 21.5" TFT display.

RFID option

1 button of your choice





Empty slots



Custom button slots



1 button emergency

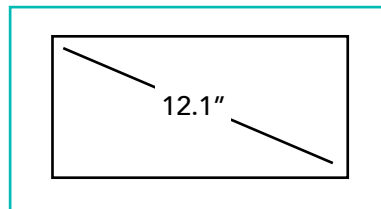


7 button slots + 1 emergency

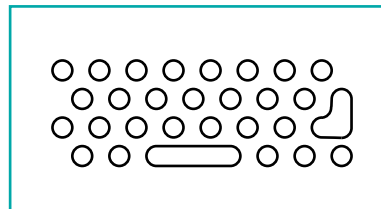


+

Display LCD touch 12.1"



Full QWERTY Keyboard



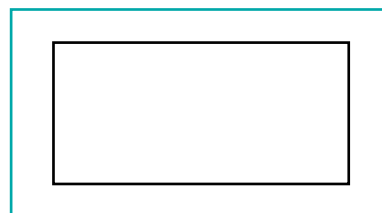
Many options for different users

Thanks to its high level of configurability, ERGO perfectly embodies the new concept of human-machine interface 4.0. The device is equipped with a flat capacitive multi-touch screen and a 21.5" TFT display.

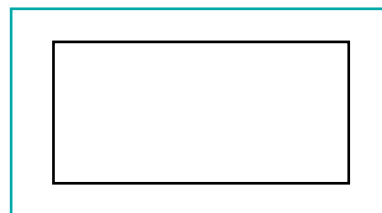
It also gives the user a choice of numerous configuration options, including a dual 12.1" visual area, touch keyboards and additional buttons.



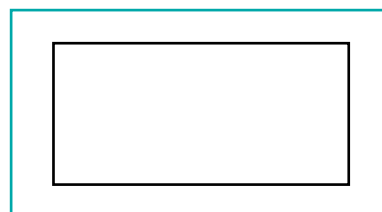
WEB PANEL



HMI



HMI+SOFTPLC



ERGO with Integrated HMI solution.

All in one product that do combine the flexibility of an industrial PC with the real time performance of a powerful HMI with integrated softPLC, motion and Ethercat master fieldbus.

Main 21.5" display with capacitive touch screen.

PC based applications.

Scada, data collection and analisys, web based applications.

Additional 12.1" display with capacitive touch.

Powerful HMI with more than 100 communication drivers.

Integrated real time soft PLC based on the IEC 61131 standard.

ESA Softmotion function blocks based on the PLCOpen standard.

Ethercat master stack for real time communication with remote I/O and drives.

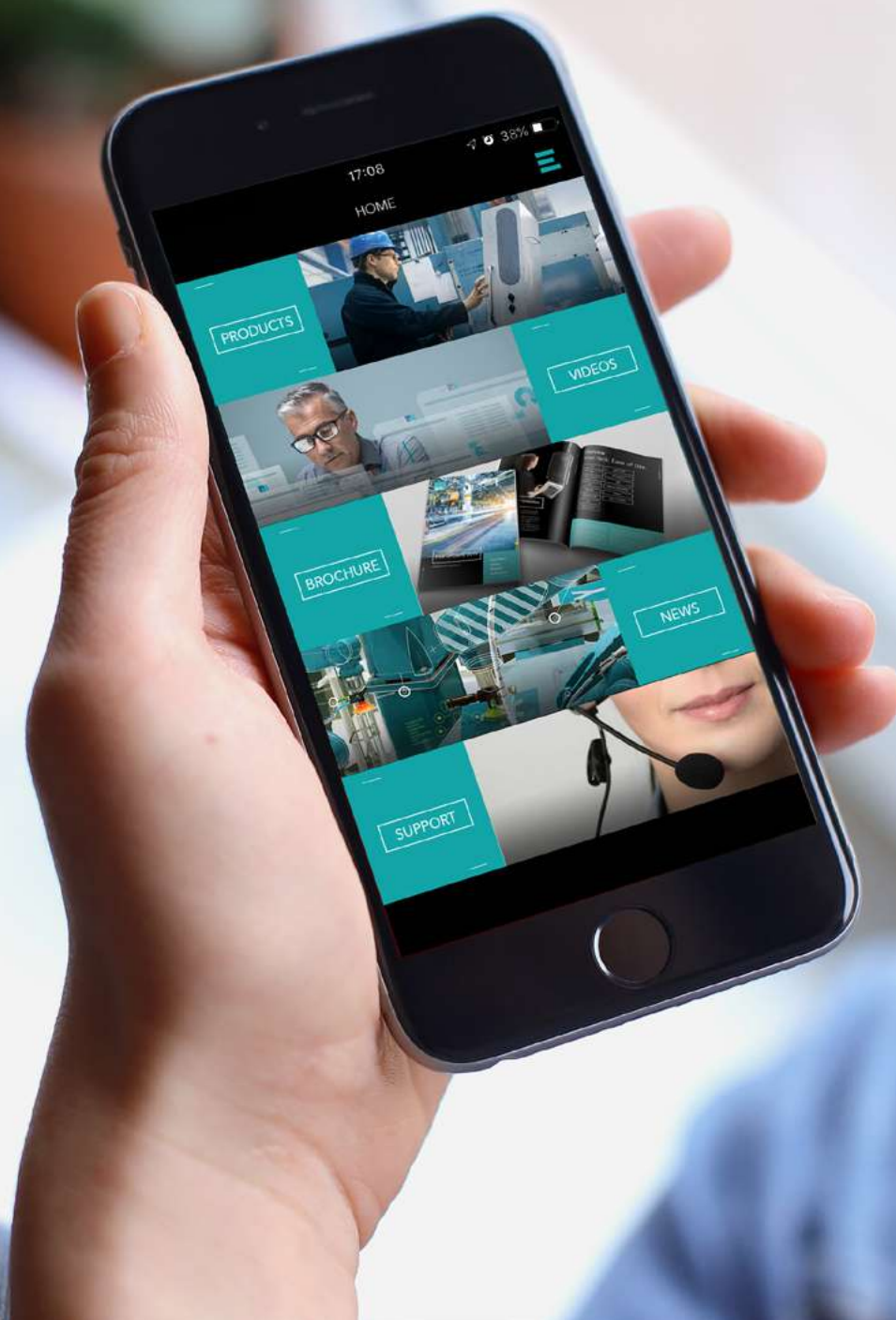


ERGO

TECHNICAL
SPECIFICATIONS

TECHNICAL SPECIFICATIONS (MORE CONFIGURATONS AVAILABLE ONLINE ON OUR WEB TOOLCONFIGURATOR)

MODEL	Embedded ARM ERGO122	PC Control ERGO222	Monitor ERGO322
Versions	- Touch Capacitive - Full Glass	- Touch Capacitive - Full Glass - Dual Touch Capacitive 120° + Keyboard Touch - Dual Touch Capacitive 120° + 12" HMI Touch"	- Touch Capacitive - Full Glass - Dual Touch Capacitive 120° + Keyboard Touch - Dual Touch Capacitive 120° + 12" HMI Touch"
General			
Bezel /Chassis	Aluminum /Sheet Steel	Aluminum /Sheet Steel	Aluminum /Sheet Steel
Mounting	Portrait Landscape	Portrait Landscape	Portrait Landscape
	VESA 100	VESA 100	VESA 100
Power Supply (Vdc)	12...32 VDC	15...36 VDC	18...30 VDC
Consumption (W)	24W for ARM base+ 24W for display keyboard (if any)	45 - 50 W for PC base + 24W for display keyboard (if any)	40W for monitor + 24W for display keyboard (if any)
Operating Temperature (°C)	-10 ... + 50 (non condensing)	-10 ... + 50 (non condensing)	-10 ... + 50 (non condensing)
Storage Temperature (°C)	-20 ... + 65	-20 ... + 65	-20 ... + 65
Humidity	90% (non condensing)	90% (non condensing)	90% (non condensing)
Protection degree (all)	IP65	IP65	IP65
Certifications	CE / UL	CE / UL	CE / UL
Display Size 1	21.5" true flat multi-touch screen	21.5" true flat multi-touch screen	21.5" true flat multi-touch screen
Display Technology	TFT / 16,7 M colors / LED backlight	TFT / 16,7 M colors / LED backlight	TFT / 16,7 M colors/ LED backlight
Display Brightness (cd/m²)	300	300	300
Contrast	5000:1	5000:1	5000:1
Viewing Angle H-V	89/89/89/89	89/89/89/89	89/89/89/89
Display Resolution (pixel)	1920x1080	1920x1080	1920x1080
Backlight life (hours)	50K	50K	50K
Touch Technology	Capacitive	Capacitive	Capacitive
Video input			DVI + VGA
Operating systems	Linux	Windows7 - Windows10 - WES7	
CPU Fanless Celeron 4G	Quad Core i.MX6 1.2 GHz Cortex A9 Linux	Celeron quad core J1900 2,0 GHz (2,42GHz) – 10W	
CPU Fanless Intel® Core™ 4G		Intel Core i3-4010U 1,7GHz / i7-4650U 1,7GHz (3,3GHz) – 15W	
RAM	2 GB		
FLASH	8 GB		
LAN	LAN 1xGb RJ45 - 1x10/100Gb RJ45		
RAM (Celeron quad core)		on board 4GB DDR3L 1066/1333MHz - dual channel -	
RAM (Fanless Intel® Core™)		up to 8GB DDR3L SODIMM 1333/1600MHz 204 pin -single channel-	
RS232 / RS485	1x RS232/RS485	1x RS232 + 1x RS485	
USB Ports 2.0/3.0 rear	2x 2.0	1x 2.0 + 1x 3.0 cpu J1900 / 4x 3.0 cpu Intel®Core™	1x USB 2.0 type A – rear 1x USB type B
Ethernet Celeron J1900		2x 1Gb RJ45 Intel I210	
Ethernet i-Core™ i3/i7		2x 1Gb RJ45 Intel I210/I218	
VGA/DP (Celeron J1900)		1x / 1x (DP passive cable required)	
DP (i-Core™ i3/i7)		2x (DP active cable required)	
RAID 0/1		2x SSD on cpu i-core	
Drives (internal)		HDD min. 500GB / SSD min. 64GB / mSATA min.32GB (options)	
Display Size 2 (only on dual Touch)	-	12.1" true flat multi-touch screen	12.1" true flat multi-touch screen
Display Technology		TFT / 16,7 M colors / LED backlight	TFT / 16,7 M colors/ LED backlight
Display Brightness (cd/m²)		400	400
Contrast		800:1	800:1
Viewing Angle H-V		80/80/65/80	80/80/65/80
Display Resolution (pixel)		1920x1080	1920x1080
Backlight life (hours)		50k	50K
Touch Technology		Capacitive	Capacitive
Operating systems		Linux WEC7	Linux WEC7
Keyboard Extension HMI Extension	-	HTML5 Web Browser + Touch keyboard	HTML5 Web Browser + Touch keyboard
	-	"Capacitive HMI 12,1" + 2 Ethernet port 10/100 Mbps RJ45, + Crew + Everyware + Codesys + Esa Motion Function Blocks Library"	"Capacitive HMI 12,1" + 2 Ethernet port 10/100 Mbps RJ45, + Crew + Everyware + Codesys + Esa Motion Function Blocks Library"
Push button extension	up to 8 x 22 mm standard push-buttons, switches, emergency button, USB, RFID etc.	up to 8 x 22 mm standard push-buttons, switches, emergency button, USB, RFID etc.	up to 8 x 22 mm standard push-buttons, switches, emergency button, USB, RFID etc.



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