

Industrial Automation

IPC - Product Catalogue



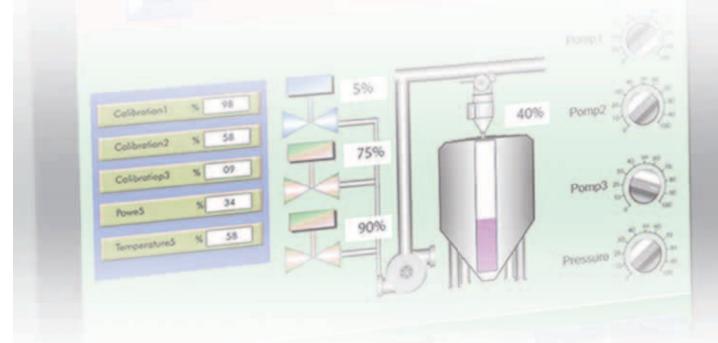
To put more **control** in **your hands**

Making industrial processes simpler, safer and more productive

Established in 1975 in Italy, ESA elettronica is now a multinational company with **36 years' experience** in the field of Industrial Automation. It has **foreign branches strategically located** in important countries around the world and **agents in over 40 nations**, offering friendly, attentive customer service and impeccable post-sales assistance.

We aim to always to provide **the very best solutions** for controlling industrial processes in as **straightforward**, **secure and productive** a manner as possible. We design all of our products considering the human factor first and foremost. We are geared towards **constant improvement**.

We look ahead to anticipate market needs, channeling our creativity and with dedication, working diligently to offer efficient, easy-to-use, high-quality market driven products.



Quality

In 1994, ESA was one of the first electrical engineering companies in Europe to achieve the ISO 9001:1994 certification, later upgraded to the ISO 9001:2008 version (vision2000).

Focusing on the quality of our products is an integral part of our corporate culture:

- a close relationship with suppliers thanks to a precise monitoring of the manufacturing process and of the quality of the single components
- rigorous monitoring of all the production stages in every department in order to ensure maximum efficiency and client satisfaction.
- timely deliveries and extremely competent after-sales service, who offer immediate and complete assistance
- use of the **CRM system**, allowing our clients **better technical support** and creating a system of **continuous updates** through **periodic newsletters**

In a world where communication boundaries are constantly evolving, people need to analyse and process a large amount of information before making important decisions in an increasingly shorter amount of time.

Our aim is to meet this requirement by offering a "truly successful solution", not only through state of the art hardware and software products, but also through expertise support by means of our professional, timely and friendly aftersales service.

- Touch-screen operator terminals and terminals with keypads permitting unrivalled connectivity (in industrial environments and globally with other PCs) thanks to compatibility with a vast number of communication protocols such as Profibus-DP, DeviceNet, CAN and Profinet that can be managed simultaneously
- Panel & Box industrial PCs, embedded systems and industrial monitors designed with modular architecture suited to all kinds of conditions of use, guaranteeing maximum reliability at all times
- Extremely flexible and intuitive new generation software. State of the art programming of operator panels and development of SCADA applications on PC platforms
- Custom-made and personalized solutions: we work with leading international players to provide products developed
 according to specific requirements and with made-to-measure graphics

ESA products are the result of a **state of the art production system** specially designed to turn Quality into a "truly successful solution": **Each product** undergoes a series of **rigorous tests (both hardware and software)** in order to **reduce any possible defect to ZERO**.



ESA's products conform to EC standards and are **c-UL** and **UL-us** (UL508 CSA C22.2 No. 14-M95), **ATEX** (Zone 2/22, category 3 G/D), **RINA** and **DNV** certified, to guarantee the complete safety and protection of the system.





EN 60068 ENVIRONMENTAL TESTS



A history characterised by the entrepreneurial spirit and dedicated to offering only the best:

- 1975 The company was established with the name Tecno System by 4 partners. Year after year, it constantly grew in the electrical equipment manufacturing sector.
- 1985 ESA elettronica was founded and supported Tecno System in the development of electronic equipment, in both custom and made-to-order, for industrial machinery
- 1990 ESA elettronica launched its first range of HMI products (human-machine interfaces) moving away from made-to-order production and focusing on solutions fully meeting all market demands and requirements
- 1991 ESA elettronica and Tecno System merged into ESA Elettronica S.r.l. becoming the first company in this sector to introduce a new human machine interface concept: the universal operator terminal
- ESA gained international recognition establishing a world-wide sales network 1992
- 1994 ESA was ISO 9001 certified
- 1996 ESA becomes a joint stock company
- 1997 A subsidiary was opened in **Spain**
- 1998 A subsidiary was opened in Germany
- 2000 A representative office was opened in India
- 2003 ESA Elettronica entered the North American market by acquiring EASON Technology; an American company in the same field
- 2004 A representative office was opened in China
- 2006 ESA Software and automation India Pvt Ltd. was inaugurated
- 2007 ESA entered the building automation market with a range of products specially designed for the
 - sector
- 2008 The subsidiary ESA Electronic Technology (Shanghai) Co. Ltd. opened in China (PRC)
- 2009 The new MyVision software for the automated and intuitive creation of building and domestic
 - projects was launched
- 2010 A new generation in the design of Industrial PCs was created
- The subsidiary ESAElektronik Teknoloji Tic. Ltd. opened. 2011



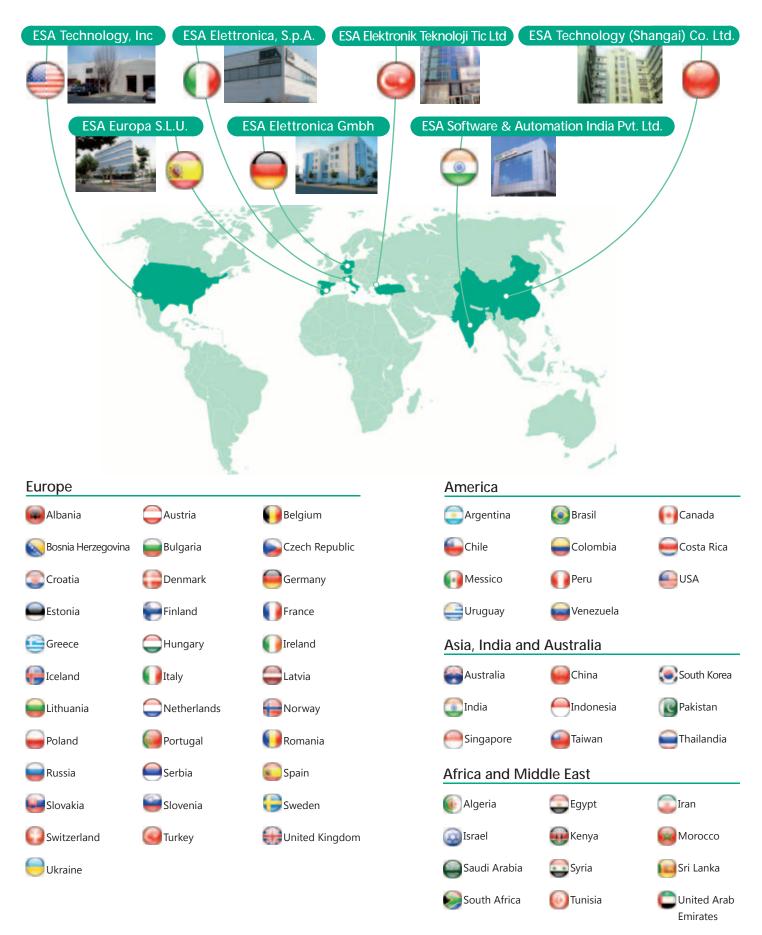












For an updated list of the available countries and distributors please visit www.esahmi.com



ESA's IPC family offers a complete range of **Industrial PC and Monitor**, *PANEL BOX* and *VESA* version, that can meet any automation requirement.

Accurate design, use of **high quality components**, **extreme mechanical sturdiness**, together with **configuration flexibility** make the ESA solution perfectly suited to difficult environments, such as those with high concentrations of **dust**, intense **vibrations** or particular **temperatures**.

Machines and automatic plants



Automatic machines for food and Pharma processing



Energy management, utilities, building and security





8





XM7

18





24





7" wide

8,4"

12,1"

15"

17

19"

Intel® ATOM 1,6 GHz N270

10



Intel® ATOM 1,66 GHz Core Duo D510

12



Intel[®] Celeron Core Duo 1,9 GHz T3100 Intel[®] Core 2 Duo 2,26 GHz P8400

13











YES YES

external mounting

| | XS7W7 | XS708 | XS712 |
|--|----------------------|-------------------------------------|---------------------------------------|
| | | | |
| Display Size | 7" wide | 8.4" | 12" |
| Technology | / wide | TFT | 12 |
| Colours | | 262 K | |
| Backlight | | LED | |
| amp life (min at 25°C) | | 50.000 hours | |
| Resolution | 800 x 480 pixel | 800 x 600 pixel | 800 x 600 pixel (1024 x 768 optional) |
| | | | |
| Touch screen | | | |
| Touch technology | Analog resis | stive (4 wires) | Analog resistive (5 wires) |
| | | | |
| Mother board / CPU | | | |
| CPU Fanless | | Intel® ATOM 1,6 GHz N270 | |
| Chipset | | 945GSE + ICH7M | |
| SB | | 533 MHz | |
| S | | | |
| System memory RAM | un to 2 Ch DDD | 2 SODIMM 200pin | up to 2 GB DDR2 DIMM 240pin |
| CAIVI | up to 2 GB DDR2 | 2 30DIIVIIVI 200PIII | up to 2 db DDK2 DIMM 240piñ |
| Disk Drives | | | |
| Hard disk / SSD (optional) | | min. 160 GB SATA 2,5" / SSD 8GB | |
| iaid disk / 355 (optional) | | 11111. 100 GD SAIA 2,5 / 33D 6GB | |
| | | | |
| Compact Flash Slots | | | |
| nternal (optional) | | 1 x | |
| External (optional) | | 1 x | |
| whoufoon | | | |
| nterfaces RS232 serial port | 1 | Lx | 2 x |
| RS485 serial port | | 1 x | Z X |
| JSB frontal (2.0) IP65 | | 1 x | |
| JSB rear (2.0) | | 2 x | 4 x |
| Green Led Power ON | | 1 x | 7. |
| PS/2 keyboard / mouse | - | - | 1 x |
| -,,, | | | |
| PCI slots | | | |
| PCI Slot 1 (optional) | | - | 1 x |
| PCI Slot 2 (optional) | - | - | 1 x |
| Mini PCIe | 1 | Lx | - |
| PCIe slot 1x (optional) | - | - | 1x |
| | | | |
| Ni-Fi | 110 E'110 'BOY (110B | 110 51 11 11100 | DOY (110D (DOY 4 |
| Wi-Fi card (optional) | Wi-Fi MiniPCIe / USB | Wi-Fi minipci / USB | PCI / USB / PCIe1x |
| /ideo / Audio interface | | | |
| /ideo port | 1,4 | VGA | 1xVGA + 1x DVI-I * |
| Audio ports | | | MIC IN + Line IN + Line OUT |
| addio ports | | - | WILC IN + LINE IN + LINE OOT |
| Networks | | | |
| Ethernet ports RJ45 | | 2 x Ethernet 10/100/1000 Mbit | |
| | | , , | |
| Dimensions | | | |
| External (WxHxD) | 228 x 155 x 80 (mm) | 250 x 190 x 80 (mm) | 336 x 256 x 81 (mm) |
| Cut-out (WxH) | 219 x 145 (mm) | 241 x 180 (mm) | 321 x 240 (mm) |
| | | | |
| Clock | | | |
| ack-up with battery | | 1 x | |
| | | | |
| echnical specifications | | 50.144 | 40.2014 |
| | | max 50 W | 1830 Vcc max 75 W |
| ower supply | | 30 | 36 |
| ower consumption ** W | | | |
| Power consumption ** W Protection degree | | IP 66 front | |
| Power consumption ** W Protection degree Operating temperature | | IP 66 front 0+50 °C | |
| Power consumption ** W Protection degree Operating temperature Itorage temperature | | IP 66 front 0+50 °C -20+65 °C | |
| Power supply Power consumption ** W Protection degree Operating temperature Storage temperature Humidity Weight (Kg) | 2.5 | IP 66 front 0+50 °C | 5,0 |

YES - NO LED/USB front

YES

Software Operating System

Optional kit
INOX version True-flat Touch
RAID feature 2xHDD
Extractable HDD/SSD drawer
DVD-RW Sata
Fixing brackets







XS715

XS717

XS719

| 15" | 17" | 19" |
|------------------|-------------------|-----|
| | TFT | |
| 262 K | 16,7 M | |
| LED | CCFL (4 lamps) | |
| 50.000 | | |
| 1024 x 768 pixel | 1280 x 1024 pixel | |

Analog resistive (5 wires)

Intel® ATOM 1,6 GHz N270 945GSE + ICH7M 533 MHz

fino a 2 GB DDR2 DIMM 240pin

min. 160 GB SATA 2,5" / SSD 8GB

1 x

| | 1 x | |
|-----|-----|---|
| | | |
| | | |
| | 2 x | |
| | 2 X | |
| 1 x | - | - |
| | 1 x | |
| | 4 x | |
| | 1 x | |
| | 1 x | |
| | | |
| | | |
| | 1 x | |
| | 1 x | |
| | | |
| | 1 x | |

PCI / USB / PCIe1x

| 1xVGA + 1x DVI-I * | 1xVGA |
|--------------------|-----------------------------|
| | MIC IN + Line IN + Line OUT |

2 x Ethernet 10/100/1000 Mbit

| 425 x 300 x 85,5 (mm) | 446 x 346 x 84 (mm) | 508 x 384 x 92,5 (mm) |
|-----------------------|---------------------|-----------------------|
| 393 x 275 (mm) | 426 x 326 (mm) | 477 x 355 (mm) |

1 x

| 1830 Vcc max 85 W | 1830 Vcc max 95 W | | | |
|-------------------|--|------|--|--|
| 43 | 55 | | | |
| IP 66 frontal | | | | |
| 0+50 ℃ | | | | |
| -20+65 °C | | | | |
| 90% | | | | |
| 6,5 | 9,0 | 11,0 | | |
| CF 111 (C) At (C | CE III (') AL (C II LOCE) (E : LEN COOCO O COTION (I : EN COOCO CO (E : EN COOCO CO | | | |

CE, cULus (in progress), Atex (Group II – cat.3 G D) / Environmental EN 60068-2-6/27/30 / Immunity EN 61000-6-2 / Emission EN 61000-6-4

YES - No LED/USB front
YES
YES
internal mounting
YES

Win7 - Win® XP Pro SP3 MUI - Xpe - CE







XS712

XS715

| | XS712 | | XS715 |
|---|---|--------------------------------|---|
| Display | | | |
| Size | 12" | | 15" |
| [echnology | | TFT | |
| Colours | | 262 K | |
| Backlight | | LED | |
| Lamp Life (min at 25°C) | | 50.000 hours | |
| Resolution | 800 x 600 pixel (1024 x 768 optional) | | 1024 x 768 pixel |
| Touch screen | | | |
| Touch technology | Ana | log resistive (5 wires) | |
| Mother board / CPU | | | |
| CPU Dynamic | Intel® ATO | M Dual core 1,66GHz D510 | |
| Chipset | | ICH8M | |
| SB | | 667 MHz | |
| | | | |
| System memory | | | |
| RAM | Up to 20 | GB DDR2 SODIMM 200pin | |
| Disk Drives | | | |
| Hard disk / SSD (optional) | min 160 | GB SATA 2,5" / SSD 8GB | |
| and answer optionary | miii. 100 | 35 3AIA 2,5 / 33D 00D | |
| Compact Flash Slots | | | |
| | | 1 x | |
| nternal (opzionale) | | | |
| External (opzionale) | | 1 x | |
| nterfacce | | | |
| RS232 serial port | | 3 x | |
| RS485 serial port | | 1 x | |
| JSB frontal (2.0) IP65 | | 1 x | |
| JSB rear (2.0) | | 4 x | |
| Green Led Power ON | | 1 x | |
| PS/2 tastiera / mouse | | 1 x | |
| S/2 tastiera / mouse | | 1 / | |
| PCI slots | | | |
| PCI Slot 1 (optional) | | 1 x | |
| PCI Slot 2 (optional) | | 1 x | |
| Mini PCIe | | - | |
| PCIe slot 1x (optional) | | 1 x | |
| | | | |
| Ni-Fi | | OCI / LISP / DCIo1v | |
| Ni-Fi card (opzionale) | l l | PCI / USB / PCIe1x | |
| /ideo / Audio interfaces | | | |
| /ideo port | | 1 x VGA | |
| Audio ports | MIC IN | N + Line IN + Line OUT | |
| | | | |
| Networks | | 110/100/1000 11/1 | |
| Ethernet ports RJ45 | 2 x Eth | ernet 10/100/1000 Mbit | |
| Dimensioni | | | |
| External (WxHxD) | 366 x 256 x 81 (mm) | | 425 x 300 x 85,5 (mm) |
| Cut-out (WxH) | 321 x 240 (mm) | | 393 x 275 (mm) |
| | | | |
| Clock | | | |
| Back-up with battery | | 1 x | |
| Cookmiss I amosifications | | | |
| Technical specifications | 10 | 20.1/ 05.14/ | |
| Power supply Power consumption ** W | | 330 Vcc max 85 W | F0 |
| | 43 | ID CC f | 50 |
| Protection degree | | IP 66 front | |
| Operating temperature | | 0+50 °C | |
| Storage temperature | | -20+65 °C | |
| Humidity | | 90% | |
| Weight (Kg) | 5,0 | | 6,5 |
| | | | amunity EN 61000 6 2 / Emission EN 61000 6 4 |
| Certifications | CE, cULus (in progress), Atex (Group II – cat.3 G D) / Environm | ientai EN 60068-2-6/27/30 / In | illiulity EN 01000-0-2 / Ellission EN 01000-0-4 |
| Certifications | CE, cULus (in progress), Atex (Group II – cat.3 G D) / Environm | ientai EN 60068-2-6/27/30 / In | illinumity EN 01000-0-27 Emission EN 01000-0-4 |
| Certifications Optional kit | | | illiulity EN 01000-0-27 Ellission EN 01000-0-4 |
| Certifications Optional kit NOX version True-flat Touch | | - NO LED / USB front | initiality EN 01000-0-27 Ethission EN 01000-0-4 |
| Certifications Optional kit NOX version True-flat Touch RAID feature 2xHDD | | - NO LED / USB front YES | initiality EN 01000-0-27 Ethission EN 01000-0-4 |
| Certifications Dptional kit NOX version True-flat Touch RAID feature 2xHDD Extractable HDD/SSD drawer | YES | - NO LED / USB front | |
| Certifications Optional kit NOX version True-flat Touch RAID feature 2xHDD | | - NO LED / USB front YES | internal optional |

Software Operative system

XS7 Dynamic



XS712

XS715

XS717

XS719

| 12" | 15" | 17" | 19" | |
|--|-----|----------------|-----------|--|
| TFT | | | | |
| 262 K 16,7 M | | | | |
| LED | | CCFL (4 lamps) | | |
| 50.000 hours | | | | |
| 800 x 600 pixel (1024 x 768 optional) 1024 x 768 pixel | | 1280 x 10 | 024 pixel | |
| | | | | |

Analog resistive (5 wires)

Intel® Core2Duo Penryn P8400 2,26GHz / Intel® Celeron Core Duo T3100 1,9GHz GM45 + ICH9M 1066 / 800 MHz

Up to 8GB DDR3 SODIMM 204pin

min. 160 GB SATA 2,5" / SSD8GB

1>

ΙX

1 v

1 x

1 x

LX

1 x

1 x

PCI / USB / PCIe 1x

1xVGA + 1x DVI-I * MIC IN + Line IN + Line OUT

2 x Ethernet 10/100/1000 Mbit

| 366 x 256 x 81 (mm) | 425 x 300 x 85,5 (mm) | 446 x 346 x 84 (mm) | 508 x 384 x 92,5 (mm) |
|---------------------|-----------------------|---------------------|-----------------------|
| 322 x 240 (mm) | 393 x 275 (mm) | 426 x 326 (mm) | 477 x 355 (mm) |

1 x

| 1830 Vcc max 75 W | 1830 Vcc max 85 W | 1830 Vcc | may 95 W | |
|-------------------|-------------------|----------|----------|--|
| | | | | |
| 48/58 | 55/65 | 67, | 77 | |
| IP 66 front | | | | |
| 0+50 °C | | | | |
| -20+65 °C | | | | |
| 90% | | | | |
| 5.0 | 6.5 | 9.0 | 11.0 | |

CE, cULus (in progress), Atex (Group II – cat.3 G D) / Environmental EN 60068-2-6/27/30 / Immunity EN 61000-6-2 / Emission EN 61000-6-4

| | YES |
|-------------------|-------------------|
| | YES |
| | YES |
| external optional | internal optional |
| | YES |





Wide range of powerful **FANLESS CPU solutions**



0 slot PCI

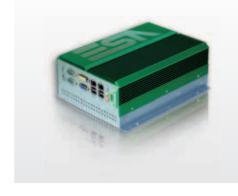
2 slot PCI

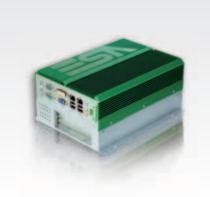
3 slot PCI

Intel® ATOM 1,6 GHz N270

16







Intel[®] Celeron 1,9 GHz T3100 Intel[®] Core 2 Duo 2,26 GHz P8400

17

Fanless



Intel[®] Celeron 1,9 GHz T3100 Intel[®] Core 2 Duo 2,26 GHz P8400

17

Fanless











XB300

XB300

| Mother board / CPU | | |
|---|------------------------------|-------------------------------|
| CPU Fanless Atom | I-t-I® ATO | M 1,6GHz N270 |
| CPU Fanless Celeron Core Duo | Intere Aron | |
| | | |
| CPU Fanless Core 2 Duo | | - |
| Chipset | | SE+ICH7M |
| FSB | 533 | 3 MHz |
| | | |
| System memory | | |
| RAM | Un to 1 | 2 GB DDR2 |
| NAIVI | Op to 2 | 1 GB DDN2 |
| Disk Drives | | |
| Hard disk / SSD (optional) | min. 160 GB S/ | ATA 2,5" / SSD 8GB |
| | | p- y |
| | | |
| Compact Flash Slots | | |
| External access slot | | 1 x |
| | | |
| Interfaces | | - |
| RS232 serial port | | 2 x |
| RS485 serial port | | • |
| USB ports (2.0) | | 6 x |
| Green Led Power ON | | 1 x |
| Red Led HHD | | 1 x |
| ATX/APO selector | | 1 x |
| PS/2 keyboard / mouse | | 1 x |
| 1 5/2 Reyboard / mouse | | |
| PCI slots | | |
| PCI Slot 2 (optional) | - | - |
| PCI Slot 3 (optional) | - | 1 x |
| PCI Slot 3 (optional) PCI Slot 2PCIe 1x + 1PCI (optional) | - | |
| PCI Slot ZPCIe 1x + 1PCI (optional) | | |
| Wi-Fi | | |
| | LICE : | |
| Wi-Fi card (optional) | USD III | nternal / PCI |
| Video / Audio interface | | |
| | 1.4/CA | . 1. DV/I I + |
| Video port | | + 1x DVI-I * |
| Audio ports | IVIIC IN + LIII | ne IN + Line OUT |
| Networks | | |
| Ethernet RJ45 | 2 v Ethornot 1 | 10/100/1000 Mbit |
| Etnernet RJ45 | 2 x ctrieffet 1 | .0/100/1000 Mbit |
| Dimensiones | | |
| | 104 200 104 () | 104 200 125 () |
| External (L/A/P) | 194 x 268 x 104 (mm) | 194 x 268 x 125 (mm) |
| Clock | | |
| | | 1 |
| Back-up with battery | | 1 x |
| Tashuisal ansaifiastians | | |
| Technical specifications | 44 20 1/ | OF IV |
| Power supply | | cc max 95 W |
| Power consumption ** W | | 30 |
| Grado di protezione | IP 20 | |
| Operating temperature | 0+50 °C | |
| Storage temperature | -20+65 °C | |
| Humidity | | 85% |
| Weight (Kg) | 4,5 | 5 |
| Certifications | | 6-2 / Emission EN 61000-6-4 |
| Certifications | CE, Illillatility EN 01000-0 | 5-2 / EIIISSIOII EN 01000-0-4 |
| 0 | | |
| Optional kit | | |
| RAID feature 2xHDD | · | 1 x |
| Extractable HDD-SSD drawer | <u>-</u> | 1 x |
| Software | | |
| | | |
| Operative system | WE SAND BY COS | MUI-Xpe-Win® 7-CE |







XB300

XB300

XB300

Intel® Celeron Core Duo 1,9GHz T3100 Intel® Core2Duo 2,26GHz P8400 GM45+ICH9M 800/1066 MHz

Up to 8 GB DDR3

min. 160 GB SATA 2,5" / SSD8GB

| 1 x |
|-----|
| |
| |
| 2 x |
| - |
| 4 x |
| 1 x |
| 1 x |
| 1 x |
| 1 x |
| |

| - | - | 1x |
|-----|---|----|
| 1 x | - | - |
| 1 x | | - |
| | | |

PCI / USB

1xVGA + 1x DVI-I * MIC IN + Line IN + Line OUT

2 x Ethernet 10/100/1000 Mbit

| 194 x 268 x 143 (mm) | 194 x 268 x 104 (mm) | 194 x 268 x 125 (mm) |
|----------------------|----------------------|----------------------|
| | | |

1 x

| 1132 Vcc max 95 W | | | |
|-------------------|---|-------|--|
| 54/42 | 54/42 | 54/42 | |
| | IP 20 | | |
| | 0+50 °C | | |
| | -20+65 °C | | |
| | 85% | | |
| 5,5 | 4,5 | 5 | |
| | CE, Immunity EN 61000-6-2 / Emission EN 61000-6-4 | | |
| | | | |
| | | | |
| 1 1 | | 1 v | |

Win7 - Win® XP Pro SP3 MUI - Xpe



OSDKeys for monitor settings

Frontal **USB** with **IP66** protection





XM7 Industrial Monitors range







XM7W7

XM708

XM712

| Dimensions | 7" wide | 8,4" | 12" |
|-------------------------------------|---|---|--|
| Technology | | TFT 262 K colors | |
| Backlight | LED | | CCFL (2 lamps) |
| Brightness cd/m2 | 500 | 350 | 370 |
| Contrast | 600:1 | 600:1 | 600:1 |
| Viewing angle H-V | 70-60 | 75-75 | 140-120 |
| Lamp life (min a 25°C) | | 50.000 hours | |
| Resolution | 800 x 480 pixel | 800 x 600 | pixel |
| Touch screen | | | |
| Touch technology | Analog resistive | (4 wires) | Analog resistive (5 wires) |
| RS232 / USB interface | | YES | |
| Interfaces | | | |
| USB frontal IP66 / USB rear (2.0) | | 1 x | |
| Green Led Power ON | | 1 x | |
| Video interface | | | |
| VGA/DVI-I */S-Video/Video composite | VGA / DVI | _ĭ * | 1 x |
| | VGA / DVI | -1 | 1 / |
| Dimensions | | | |
| External (WxHxD) | 228 x 155 x 66,7 (mm) | 250 x 190 x 66,7 (mm) | 336 x 256 x 56,7 (mm) |
| Cut-out (WxH) | 219 x 145 (mm) | 241 x 180 (mm) | 321 x 240 (mm) |
| Technical specifications | | | |
| Power supply | | 1830 Vcc max 50 W | |
| Power consumption W | 30 | 30 | 35 |
| Protection degree | | IP66 front | |
| Operating temperature | | 050°C | |
| Storage temperature | | -20+65 °C | |
| Humidity | | 90% | |
| Weight (Kg) | 2,2 | 2,6 | 4,0 |
| Certifications | CE, cULus (in progress), Atex (Group II – cat.3 | G D), Environmental EN60068-2-6/27/30, Immuni | ty EN61000-6-2 / Emission EN 61000-6-4 |
| Optional Kit | | | |
| INOX version - True-flat Touch | - | - | SI |
| External power supply 220/24VDC | | YES | |







| XM715 |
|-------|

XM717

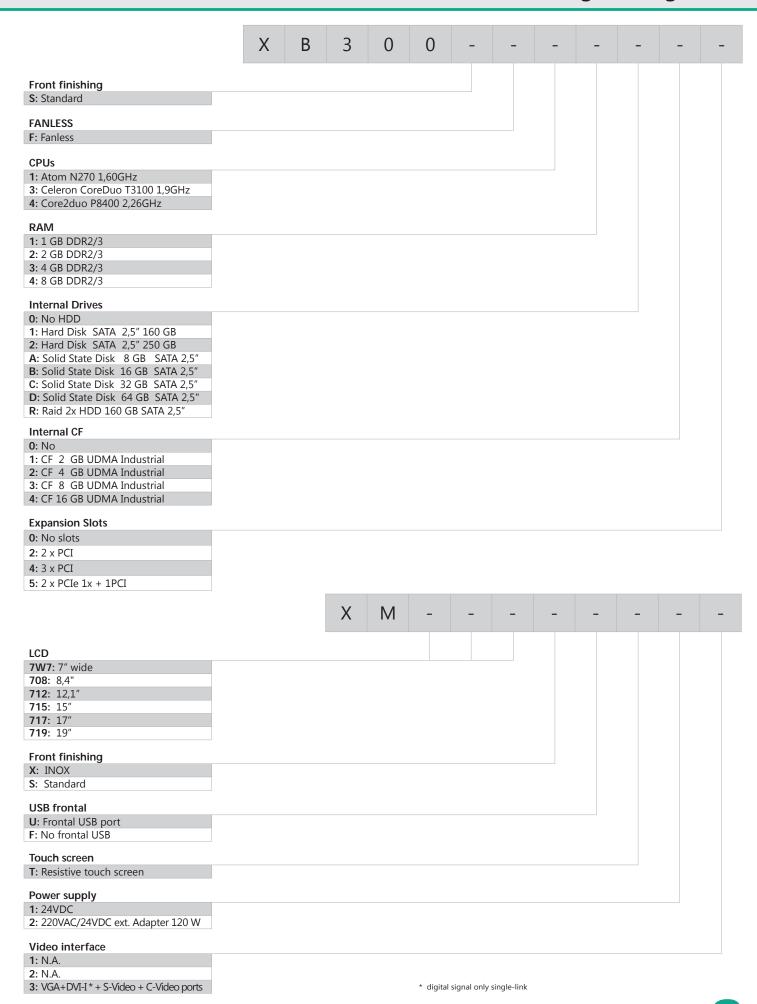
XM719

| Dimensions | Display | | | |
|---|-------------------------------------|--|---|--|
| Backlight | | | | |
| Brightness cd/m2 350 350 450 | | TFT 16,2 M colori | | |
| Contrast Contrast | | CCFL (2 lamps) | | |
| Viewing angle H-V 140-125 170-170 170-170 170-170 1024 x 768 pixel 1280x1024 pixel 1280x1024 pixel 1280x1024 pixel 1004 x 768 pixel 1280x1024 pixel 1280x1024 pixel 1004 x 768 pixel | | | | |
| Resolution | | | | |
| Touch screen Touch technology Analog resistive (5 wires) RS232 / USB interface YES | Viewing angle H-V | 140-125 | 170-170 | 170-170 |
| Touch technology RS232 / USB interface | Resolution | 1024 x 768 pixel | 1280x10 | 24 pixel |
| New Content | | | | |
| Interfaces USB front IP66 / USB rear (2.0) 1 x | | | Analog resistive (5 wires) | |
| USB front IP66 / USB rear (2.0) | RS232 / USB interface | | YES | |
| Green Led Power ON 1 x Video interface VGA/DVI-I */S-Video/Video composite 1 x Dimensions External (WxHxD) 425 x 300 x 57,2 (mm) 446 x 346 x 59,7 (mm) 508 x 384 x 64,2 (mm) Cut-out (WxH) 393 x 275 (mm) 426 x 326 (mm) 477 x 353 (mm) Technical specifications Power supply 1830 Vcc max 50 W Power consumption W 35 45 45 Protection degree IP66 front 90° 45 | Interfaces | | | |
| Video interface VGA/DVI-1*/S-Video/Video composite 1 x Dimensions External (WxHxD) 425 x 300 x 57,2 (mm) 446 x 346 x 59,7 (mm) 508 x 384 x 64,2 (mm) Cut-out (WxH) 393 x 275 (mm) 426 x 326 (mm) 477 x 353 (mm) Technical specifications Power supply 1830 Vcc max 50 W Power consumption W 35 45 45 45 45 Protection degree 1966 front 1050°C C Storage temperature 050°C C Umidity 90% 90% Power consumption W 6,0 7,5 9,0 C Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | USB front IP66 / USB rear (2.0) | | 1 x | |
| VGA/DVI-1*/S-Video/Video composite | Green Led Power ON | | 1 x | |
| Dimensions External (WxHxD) 425 x 300 x 57,2 (mm) 446 x 346 x 59,7 (mm) 508 x 384 x 64,2 (mm) Cut-out (WxH) 393 x 275 (mm) 426 x 326 (mm) 477 x 353 (mm) Technical specifications Power supply 1830 Vcc max 50 W Power consumption W 35 45 45 Protection degree IP66 front Operating temperature 050°C 5 Storage temperature -20+65°C Umidity Umidity 90% 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Video interface | | | |
| External (WxHxD) 425 x 300 x 57,2 (mm) 446 x 346 x 59,7 (mm) 508 x 384 x 64,2 (mm) Cut-out (WxH) 393 x 275 (mm) 426 x 326 (mm) 477 x 353 (mm) Technical specifications Power supply 1830 Vcc max 50 W Power consumption W 35 45 45 Protection degree Operating temperature Coperating temperature Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | VGA/DVI-I */S-Video/Video composite | | 1 x | |
| Cut-out (WxH) 393 x 275 (mm) 426 x 326 (mm) 477 x 353 (mm) Technical specifications Power supply 1830 Vcc max 50 W Power consumption W 35 45 45 Protection degree IP66 front Operating temperature Operating temperature O50°C Storage temperature -20+65 °C Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Dimensions | | | |
| Technical specifications | External (WxHxD) | 425 x 300 x 57,2 (mm) | 446 x 346 x 59,7 (mm) | 508 x 384 x 64,2 (mm) |
| Power supply 1830 Vcc max 50 W | Cut-out (WxH) | 393 x 275 (mm) | 426 x 326 (mm) | 477 x 353 (mm) |
| Power consumption W 35 45 45 Protection degree IP66 front Operating temperature 050°C Storage temperature -20+65 °C Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Technical specifications | | | |
| Protection degree IP66 front Operating temperature 050°C Storage temperature -20+65°C Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Power supply | | 1830 Vcc max 50 W | |
| Operating temperature 050°C Storage temperature -20+65°C Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Power consumption W | 35 | 45 | 45 |
| Storage temperature -20+65 °C Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Protection degree | | IP66 front | |
| Umidity 90% Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Operating temperature | | 050°C | |
| Weight (Kg) 6,0 7,5 9,0 Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | Storage temperature | | -20+65 °C | |
| Certifications CE, cULus (in progress), Atex (Group II – cat.3 G D), Environmental EN60068-2-6/27/30, Immunity EN61000-6-2 / Emission EN 61000-6-4 Optional Kit INOX version - True-flat Touch YES | | | | |
| Optional Kit INOX version - True-flat Touch YES | | | | |
| INOX version - True-flat Touch YES | Certifications | CE, cULus (in progress), Atex (Group II – ca | at.3 G D), Environmental EN60068-2-6/27/30, Immur | nity EN61000-6-2 / Emission EN 61000-6-4 |
| | Optional Kit | | | |
| External power supply 220/24VDC YES | INOX version - True-flat Touch | | YES | |
| | External power supply 220/24VDC | | YES | |



| LCD |
|---|
| 7W7 : 7" wide |
| 708 : 8,4" |
| 712 : 12,1" |
| 715 : 15" |
| 717 : 17" |
| 719 : 19" |
| Front finishing |
| X: INOX w/o frontal USB/LED |
| S: Standard with frontal USB/LED |
| U: Standard w/o frontal USB/LED |
| FANLESS |
| F: Fanless |
| P: No fanless |
| CDU |
| CPUs 1: Atom N270 1 60GHz |
| 1: Atom N270 1,60GHz |
| 2: Atom D510 Core Duo 1,66GHz |
| 3: Celeron core2 T3100 1,9GHz |
| 4: Core2duo P8400 2,26GHz |
| RAM |
| 1 : 1 GB |
| 2 : 2 GB |
| 3 : 4 GB |
| 4 : 8 GB |
| Internal Drives |
| 0: No HDD |
| 1: Hard Disk 160 GB SATA 2,5" |
| 2: Hard Disk 250 GB SATA 2,5" |
| 3: 2 x Hard Disk 160 GB SATA 2,5" |
| A: Solid State Disk 8 GB SATA 2,5" |
| |
| B: Solid State Disk 16 GB SATA 2,5" |
| C: Solid State Disk 32 GB SATA 2,5" |
| D: Solid State Disk 64 GB SATA 2,5" |
| R : RAID 2 x HDD 160 GB SATA 2,5" |
| Internal CF |
| 0: No |
| 1: CF 2 GB UDMA Industrial |
| 2: CF 4 GB UDMA Industrial |
| 3: CF 8 GB UDMA Industrial |
| 4: CF 16 GB UDMA Industrial |
| |
| Expansion Slots |
| 0: No slots |
| 1: 1 x PCI |
| 2 : 2 x PCI |
| 2. 1 v DCIo |
| 3: 1 x PCIe |
| External Drives |
| 3: 1 x PCIe External Drives 0: No |
| External Drives 0: No 1: 1 x accessible CF slot |
| External Drives |

XB300 and XM7 range configurator





Operative Systems and Accessories

Operative systems

XWINES00M11

Windows Embedded Standard 2009 Operating system with MUI support for: IT EN DE FR ES

XWINXE00ML1

XP Professional for embedded, MUI version licence

XWINCE600EN1

Win CE 6.0 R3 Professional licence (English)

XWINFS00M21

Windows Embedded Standard 2009

Operating system with MUI support for:
IT EN DE FR ES TK PT BRA CK RUS PL CHIs CHIt

XWIN7U00ML1

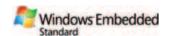
Windows 7 Ultimate, MUI version licence

XACCPE0KBTS00

On-Screen Keyboard XP/WES licence









Accessories

Codes and descriptions

| PWR220-24A | Universal power supply 220VAC-24VDC |
|----------------|--|
| PWR220-24B | Universal power supply 220VAC-24VDC - Schuko |
| DISPAD015RK019 | Adapter panel for 19" Rack mounting (XS715 only) |
| PCIWI FICARD | Wi-Fi IEEE 802.11 PCI card complete with antenna cable 2m. |
| XCF2INDSLC | Industrial Compact Flash 2 GB |
| XCF4INDSLC | Industrial Compact Flash 4 GB |
| XCF8INDSLC | Industrial Compact Flash 8 GB |
| XCF16INDSLC | Industrial Compact Flash 16 GB |
| XPCI2RS232 | PCI card 2 x RS232 (SUB-D 9 pin) |
| XPCI2RS485 | PCI card 2 x RS485 (SUB-D 9 pin) |
| XPCILAN1000 | PCI card Ethernet 10/100/1000 |
| XPCILPTCARD | PCI card Parallel Port (SUB-D 25 pin) |
| XPCIETHERCAT | PCI card 1 EtherCAT port 10-100Mb |

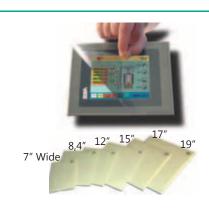


Protfilm: protecting your touch screen

PROTFILM is a (treatable and removable) **transparent** PET **adhesive film**, 0.2 mm thick, that can be **applied to the touch screen for protection against scratches and cuts**. Each pack includes 5 protective film sheets.

Codes and description

| PROTFILM7W | Protection sheet adhesive and transparent for XS7 - XM7 with 7" wide display |
|------------|--|
| PROTFILM6 | Protection sheet adhesive and transparent for XS7 - XM7 with 8,4" display |
| PROTFILM12 | Protection sheet adhesive and transparent for XS7 - XM7 with 12" display |
| PROTFILM15 | Protection sheet adhesive and transparent for XS7 - XM7 with 15" display |
| PROTFILM17 | Protection sheet adhesive and transparent for XS7 - XM7 with 17" display |
| PROTFILM19 | Protection sheet adhesive and transparent for XS7 - XM7 with 19" display |



Repairs and Spare Parts

The **ESA repair service** relies on a well-equipped laboratory adjacent to standard production and on highly qualified personnel. The **repaired product passes through all the stages provided for production**, including an 8-hour 'Burn-In' and a 48-hour 'Run-In', in order to guarantee total reliability of the repaired product.



Moreover, **ESA** can also **supply single spare parts** in order to **replace any component of the product autonomously and safely directly on-site**. ESA also provides a **manual** with hundreds of pictures and explanatory drawings, allowing anybody to repair and **replace the** terminal **parts** in a **safe**, **quick and easy way**. This manual is a particularly useful tool, providing great added value.

Codes and descriptions

SPARE PARTS CD

CD with Spare Parts manual and Price List in Italian and English



Polymath

Polymath is an extremely flexible and intuitive, state of the art software for programming all operator panels in the ESA range and for developing SCADA applications on PC platforms for plant monitoring and control.

Polymath was developed with .NET technology and is equipped with a **modern and complete interface**, allowing for easy and intuitive programming, thereby optimising the project development and execution stages, both in terms of time and efficacy. Among the advantages offered by Polymath, there is the option to **import variables directly from PLC databases**, thus preventing any unnecessary waste of time for filling in the project variable table.

Thanks to the **immense number of supported communication protocols**, with Polymath there are no longer connectivity limitations both in the industrial environment and in the PC world. In addition, all the major communication buses, such as **Profibus**, **DeviceNet**, **Can and Profinet** are available.

With Polymath, the user can also make use of a tool for **importing and exporting recipes**, **alarms**, **translations and variables in standard Excel format**, and has a **dictionary** for automatic term translation.

POLYMATH ADVANCED

Polymath Advanced is an integrated programming system, that allows developing applications for the entire ESA range of products: from VT text terminals, to advanced supervision projects on PC, passing through the IT family of products.

| Codes and descriptions | | |
|--------------------------|--|--|
| POLYMATHKIT | Kit software Polymath - Advanced Version | |
| The kit includes the fol | lowing cables and adapters: | |
| CVUSB11102 | PC USB-A ->IT USB-B programming cable | |
| CVADUSBB9M | USB-B – 9-pin male adapter | |
| CVAD9F25M | 9-pin female- 25-pin male adapter | |

Polymath

Polymath is compatible with Windows 2000 SP4, Windows XP, Windows Vista and Windows 7



Polymath: simplicity first

The advanced Polymath controls 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. Once you have chosen the required control, it can be placed inside the project page end easily configured.



Guided project creation

By using specially designed wizards you can **create a project in just a few clicks**: all you have to do is select the available panel and the interface device and the **entire application will be automatically configured**.



Rich object library

Polymath has a **rich library of objects with fantastic** graphical and functional **impact**. Such objects are **divided by category** and can be easily placed in the pages by **simply dragging and dropping them**. Furthermore, the library can be **customised according to one's requirements**, inserting objects created directly by the user.



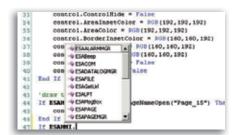
Importing/exporting project data

Polymath provides convenient utilities for importing and exporting all the data used for creating a project, such as recipes, alarms, list of variables and texts. Polymath also allows importing variables directly from PLC databases (e.g., Siemens, Allen-Bradley and Codesys).



Network projects

The creation of network projects allows you to **share and transmit data from one device to another** within a corporate network. Data can be accessed and displayed through the **corporate intranet and the Internet** through **client-server connections between the panels**. An efficient network allows you to view and **monitor every station in a plant from any other workstation**.



VB script with intellisense

Polymath offers a further level of customized application with VBScript programming language, allowing you to create your own routines for managing the project elements in an easy and intuitive way. Thanks to the "Intellisense" function, the user can access (through a convenient context menu) a library of powerful functions developed by ESA for its operator terminals.



Polymath: freedom of communication



Remote supervision

Any project made in the Polymath Advanced development environment can also be run on PC with Microsoft Windows 2000 SP4, XP, Vista and Seven, as well as on all ESA industrial PCs. With Polymath PC Machine Edition, an ordinary computer becomes a powerful supervision and control station, that can connect directly to the system and manage a massive number of communication protocols, including Profibus-DP, CanOpen and DeviceNet.

Using Polymath Machine Edition PC you will have the opportunity to **connect the PC directly to the field** through a multitude of integrated communication protocols. All Polymath communication drivers are supported, as well as the most common fieldbuses used in the industrial sector, such as **Profibus-DP** and **CanOpen**.

Codes and descriptions

| PCMACHINE-512 | Polymath PC Machine Edition runtime license – 512 variables |
|----------------|--|
| PCMACHINE-1024 | Polymath PC Machine Edition runtime license – 1024 variables |
| PCMACHINE-2048 | Polymath PC Machine Edition runtime license – 2048 variables |
| PCMACHINE-4096 | Polymath PC Machine Edition runtime license – 4096 variables |

ESA offers three different models to meet any communication requirement:

- **PC-USB SP**: serial version with RS232/RS485 interface towards the field supporting all the **serial drivers** in Polymath and Siemens **MPI** (both at the speed of 187,500 KBit/s and 1.5Mbit/s)
- PC-USB DP: version supporting Profibus DP
- PC-USB CAN: version supporting CANOpen and Devicenet protocols

Codes and description

| PCUSBADP0SP2 | External module to connect PC in RS232/485 |
|--------------|--|
| PCUSBADP0CAN | External module to connect PC in CAN/DeviceNet |
| PCUSBADP0DP | External module to connect PC in Profibus-DP |





Automatic connection to relational databases

This dedicated Tool allows **exporting data to the most popular relational databases**, such as **SQL server**. The data is recovered and arranged autonomously **relieving the system from any other task**. This way, you can **freely manage the data structure** to be exported in order to **perfectly adapt to existing situations** without annoying and expensive conversion operations.

The operator panels in the IT range and Polymath PC Machine Edition can be connected to a production plant and the production data can be exported directly to a remote Database (such as SQL Server) using the integrated Ethernet port. Just indicate the names of the variables to be monitored and, when necessary, their values are automatically read by the PLC and inserted in the specific location of the chosen database.

Codes and descriptions

ESA Database Connection Software License









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