

Panel PC, Capacitive multitouch (PCT), 10.1", 2 x Ethernet, 2 x USB 3.0, 1 x RS232, 1 x RS485, Windows 7, Galileo Runtime License



Powering Business Worldwide™

Part no. XP-503-10-A10-A00-1B

174474

EL Number 4560894

(Norway)

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|-----------------------------------|--|
| Product name | Eaton XP Panel PC |
| Part no. | XP-503-10-A10-A00-1B |
| EAN | 7640130098145 |
| Product Length/Depth | 276 millimetre |
| Product height | 81 millimetre |
| Product width | 179 millimetre |
| Product weight | 2.7 kilogram |
| Certifications | UL508 CUL508 UL File No.: E205091 DNV GL CSA File No.: C22.2. No. 142-M1987 EMC according to 2014/30/EU Certified by UL for use in Canada CULus UL CE |
| Product Tradename | XP |
| Product Type | Panel PC |
| Product Sub Type | None |
| Catalog Notes | For CFast memory cards License certificates for onboard interfaces not required Not offered by Eaton |
| Enclosure material | Aluminum (die-cast) |
| Features | Min. 32 GByte SSD 1 x RS485 Powerful graphic processor 2 x Ethernet interface 10/100/1000 Mbps 4 GByte DDR3-RAM Fanless CPU and system cooling, natural convection-based passive cooling 1.65 GHz dual-core CPU min. 4 GByte of CFast removable memory 2 x USB host 3.0 1 x DVI-I Customer individual configuration 1 x RS232 |
| Fitted with: | 2 x Ethernet 1000/100/10 Mbps (built-in interface) 2 x USB host 3.0 (built-in interface) 1 x RS232 (built-in interface) Touch screen 1 x RS485 (built-in interface) 1 x DVI-I (built-in interfaces) |
| Functions | Mouse-cursor control integrated |
| Current consumption | 1.2 A max. |
| Degree of protection | NEMA 12 IP20, rear (according to EN 60529-1) |
| Degree of protection (front side) | IP65 |
| Emitted interference | Class A (according to EN 55022:2010 and EN 61000-6-4:2007) |
| Interfaces | Ethernet (10/100/1000 Mbps) RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC) 2 x USB 3.0 Host RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC) |
| Interference immunity | According to EN 55024:2010 According to EN 61131-2:2007 According to EN 61000-6-2:2005 |
| Model | Die-cast aluminum enclosure and glass front in aluminum frame |
| Mounting method | Front build in possible Flush mounting - Clearance: Width x Height ≥ 50 mm (1.97"), Depth ≥ 20 mm (0.79") Flush mounting - Inclination from vertical: # ≤ ± 10 ° (if using natural convection) |

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| | | Flush mounting Flush mounting - Mounting plate: min. 1.5 mm (0.06"), max. 4 mm |
| Number of slots | | 1 (for CFast memory cards) |
| Product category | | Panel PC |
| Protocol | | EtherNet/IP MODBUS Other bus systems |
| RoHs conformity | | Yes |
| Software | | Galileo Open Runtime License Galileo or 3rd party |
| Type | | Industrial PC |
| Voltage type | | DC |
| | | |
| Ambient operating temperature - min | | 0 °C |
| Ambient operating temperature - max | | 50 °C |
| Ambient storage temperature - min | | -20 °C |
| Ambient storage temperature - max | | 60 °C |
| Environmental conditions | | Condensation: Non-condensing |
| Operating temperature - min | | 0 °C |
| Operating temperature - max | | 50 °C |
| Relative humidity | | 10 - 90 % (non-condensing) |
| | | |
| Rated operational voltage | | 24 V DC (power-supply - safety extra low voltage) |
| Supply voltage | | 18-36 V DC, Power supply, permissible voltage |
| Supply voltage at AC, 50 Hz - min | | 0 |
| Supply voltage at AC, 50 Hz - max | | 0 |
| Supply voltage at DC - min | | 18 |
| Supply voltage at DC - max | | 36 |
| | | |
| Display contrast ratio | | 500:1 |
| Display lighting | | Single LED (side-light type) |
| Display size | | 222.72 x 125.28 mm 16:9 |
| Display type | | Tempered glass with anti-reflective coating TFT |
| Display viewing angle | | 70°/70°/70°/50° (left/right/up/down) |
| Lifespan | | 50,000 h (Service life of back-lighting) |
| Luminance intensity | | 550 cd/m ² |
| Number of colors of the display | | 262144 |
| Pixel resolution | | WSVGA 1024 x 600 |
| Screen size (diagonal) | | 10.1 in |
| Touch technology | | Multi-touch touch panel touch sensor Capacitive multitouch (PCT) |
| | | |
| Backup time | | 5 years, typ. (time at zero voltage) |
| Battery runtime | | Back-up of real-time clock: CR 2032 (220 mA/h, 3 V), replaceable |
| External memory | | Min. 4 GB of CFast removable memory |
| Internal memory | | 4 GByte of DDR3 RAM, min. 32 GByte SSD |
| Memory capacity | | 4,000 MB |
| Operating system | | Windows Embedded Standard 7 |
| Processor | | X86, DualCore 1.65Ghz |
| | | |
| Equipment heat dissipation, current-dependent Pvid | | 29 W |
| Heat dissipation capacity P _{diss} | | 0 W |
| Heat dissipation per pole, current-dependent Pvid | | 0 W |
| Rated operational current for specified heat dissipation (I _n) | | 0 A |
| Static heat dissipation, non-current-dependent P _{vs} | | 29 W |
| 10.2.2 Corrosion resistance | | Meets the product standard's requirements. |

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| 10.2.3.1 Verification of thermal stability of enclosures | | Meets the product standard's requirements. |
| 10.2.3.2 Verification of resistance of insulating materials to normal heat | | Meets the product standard's requirements. |
| 10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects | | Meets the product standard's requirements. |
| 10.2.4 Resistance to ultra-violet (UV) radiation | | Please enquire |
| 10.2.5 Lifting | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.6 Mechanical impact | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.2.7 Inscriptions | | Meets the product standard's requirements. |
| 10.3 Degree of protection of assemblies | | Meets the product standard's requirements. |
| 10.4 Clearances and creepage distances | | Meets the product standard's requirements. |
| 10.5 Protection against electric shock | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.6 Incorporation of switching devices and components | | Does not apply, since the entire switchgear needs to be evaluated. |
| 10.7 Internal electrical circuits and connections | | Is the panel builder's responsibility. |
| 10.8 Connections for external conductors | | Is the panel builder's responsibility. |
| 10.9.2 Power-frequency electric strength | | Is the panel builder's responsibility. |
| 10.9.3 Impulse withstand voltage | | Is the panel builder's responsibility. |
| 10.9.4 Testing of enclosures made of insulating material | | Is the panel builder's responsibility. |
| 10.10 Temperature rise | | The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices. |
| 10.11 Short-circuit rating | | Is the panel builder's responsibility. |
| 10.12 Electromagnetic compatibility | | Is the panel builder's responsibility. |
| 10.13 Mechanical function | | The device meets the requirements, provided the information in the instruction leaflet (IL) is observed. |

Technical data ETIM 8.0

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| Programmable logic controllers PLC (EG000024) / Panel PC (EC001414) | | |
| Information, communication and media technology / Computer system for industrial use / Industrial PC / Panel PC (ecl@ss10.0.1-19-20-01-03 [AFR616003]) | | |
| Supply voltage AC 50 Hz | V | 0 - 0 |
| Supply voltage AC 60 Hz | V | 0 - 0 |
| Supply voltage DC | V | 18 - 36 |
| Voltage type of supply voltage | | DC |
| Number of HW-interfaces industrial Ethernet | | 2 |
| Number of interfaces PROFINET | | 0 |
| Number of HW-interfaces RS-232 | | 1 |
| Number of HW-interfaces RS-422 | | 0 |
| Number of HW-interfaces RS-485 | | 1 |
| Number of HW-interfaces serial TTY | | 0 |
| Number of HW-interfaces USB | | 2 |
| Number of HW-interfaces parallel | | 0 |
| Number of HW-interfaces Wireless | | 0 |
| Number of HW-interfaces other | | 1 |
| Number of HW-interfaces SCSI | | 0 |
| Number of HW-interfaces PS2 | | 0 |
| Supporting protocol for PROFIBUS | | No |
| Supporting protocol for CAN | | No |
| Supporting protocol for INTERBUS | | No |
| Supporting protocol for ASI | | No |
| Supporting protocol for KNX | | No |
| Supporting protocol for Modbus | | Yes |
| Supporting protocol for Data-Highway | | No |
| Supporting protocol for DeviceNet | | No |
| Supporting protocol for SUCONET | | No |
| Supporting protocol for LON | | No |
| Supporting protocol for PROFINET IO | | No |
| Supporting protocol for PROFINET CBA | | No |
| Supporting protocol for SERCOS | | No |
| Supporting protocol for Foundation Fieldbus | | No |

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| Supporting protocol for EtherNet/IP | | Yes |
| Supporting protocol for AS-Interface Safety at Work | | No |
| Supporting protocol for DeviceNet Safety | | No |
| Supporting protocol for INTERBUS-Safety | | No |
| Supporting protocol for PROFIsafe | | No |
| Supporting protocol for SafetyBUS p | | No |
| Supporting protocol for other bus systems | | Yes |
| Radio standard Bluetooth | | No |
| Radio standard Wi-Fi 802.11 | | No |
| Radio standard GPRS | | No |
| Radio standard GSM | | No |
| Radio standard UMTS | | No |
| IO link master | | No |
| Type of display | | TFT |
| Screen diagonal | inch | 10.1 |
| Number of pixels, horizontal | | 1,024 |
| Number of pixels, vertical | | 600 |
| Preinstalled operating system | | Windows Embedded Standard 7 |
| Max. main memory | MB | 4,000 |
| Integrated keyboard | | No |
| Number of function buttons | | 0 |
| Number of buttons with LED | | 0 |
| Number of system buttons | | 0 |
| With touch screen | | Yes |
| Mouse-cursor control integrated | | Yes |
| Degree of protection (IP), front side | | IP65 |
| Degree of protection (NEMA) | | 12 |
| Operating temperature | °C | 0 - 50 |
| With hard disc | | No |
| With CD-ROM drive | | No |
| With DVD-drive | | No |
| With CD-RW drive | | No |
| With DVD RW drive | | No |
| With floppy disc drive | | No |
| With other storage media | | No |
| Customer individual configuration | | Yes |
| Number of free AGP-slots | | 0 |
| Number of free PCI-slots | | 0 |
| Number of free ISA-slots | | 0 |
| Number of free PCMCIA-slots | | 0 |
| Rail mounting possible | | No |
| Wall mounting/direct mounting | | No |
| Front built-in possible | | Yes |
| Rack-assembly possible | | No |
| Mounting type, table foot | | No |
| Mounting type, galleys mounting | | No |
| Suitable for safety functions | | No |
| Width of the front | mm | 276 |
| Height of the front | mm | 179 |
| Built-in depth | mm | 73.5 |