

Specifications



Photo is representative



Eaton 174475

Eaton XP Panel PC, Capacitive multitouch (PCT), 15.6", 2 x Ethernet, 2 x USB 3.0, 1 x RS232, 1 x RS485, Windows 7, Galileo Runtime License

General specifications

PRODUCT NAME	Eaton XP Panel PC
CATALOG NUMBER	174475
EAN	7640130098152
PRODUCT LENGTH/DEPTH	404 mm
PRODUCT HEIGHT	83 mm
PRODUCT WIDTH	255 mm
PRODUCT WEIGHT	4.95 kg
CERTIFICATIONS	CE UL File No.: E205091 UL UL508 cULus DNV GL Certified by UL for use in Canada CSA File No.: C22.2. No. 142-M1987 EMC according to 2014/30/EU CUL508
MODEL CODE	XP-503-15-A10-A00-1B



Powering Business Worldwide

Features & Functions

ENCLOSURE MATERIAL Aluminum (die-cast)

FEATURES

1 x RS232
 1 x DVI-I
 Min. 32 GByte SSD
 Fanless CPU and system cooling, natural convection-based passive cooling
 1.65 GHz dual-core CPU
 4 GByte DDR3-RAM
 min. 4 GByte of CFast removable memory
 1 x RS485
 Powerful graphic processor
 2 x Ethernet interface 10/100/1000 Mbps
 2 x USB host 3.0
 Customer individual configuration

FITTED WITH:

2 x Ethernet 1000/100/10 Mbps (built-in interface)
 Touch screen
 1 x RS485 (built-in interface)
 2 x USB host 3.0 (built-in interface)
 1 x RS232 (built-in interface)
 1 x DVI-I (built-in interfaces)

FUNCTIONS

Mouse-cursor control integrated

General information

CURRENT CONSUMPTION 1.5 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 2 x USB 3.0 Host
 Ethernet (10/100/1000 Mbps)
 RS485 (not galvanically isolated, 9-pin SUB-D plug, UNC)
 RS232 (not galvanically isolated, 9-pin SUB-D plug, UNC)

INTERFERENCE IMMUNITY According to EN 61131-2:2007
 According to EN 55024:2010
 According to EN 61000-6-2:2005

MODEL Die-cast aluminum enclosure and glass front in aluminum frame

MOUNTING METHOD Flush mounting -
 Inclination from vertical: $\alpha \leq \pm 10^\circ$ (if using natural convection)
 Flush mounting -
 Mounting plate: min. 1.5 mm (0.06"), max. 4 mm
 Flush mounting -
 Clearance: Width x Height ≥ 50 mm (1.97"), Depth ≥ 20 mm (0.79")
 Flush mounting
 Front build in possible

NUMBER OF SLOTS 1 (for CFast memory cards)

PRODUCT CATEGORY Panel PC

PROTOCOL Other bus systems
 EtherNet/IP
 MODBUS

ROHS CONFORMITY Yes

SOFTWARE Galileo Open Runtime License
 Galileo or 3rd party

TYPE Industrial PC

Climatic environmental conditions

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)

Display

DISPLAY CONTRAST RATIO	500:1
DISPLAY LIGHTING	LED
DISPLAY SIZE	16:9 344.23 x 193.54 mm
DISPLAY TYPE	TFT Tempered glass with anti-reflective coating
DISPLAY VIEWING ANGLE	85°/85°/80°/80° (left/right/up/down)
LIFESPAN	50,000 h (Service life of back-lighting)
LUMINANCE INTENSITY	300 cd/m ²
NUMBER OF COLORS OF THE DISPLAY	16777216
PIXEL RESOLUTION	1366 x 768 WXGA
SCREEN SIZE (DIAGONAL)	15.6 in
TOUCH TECHNOLOGY	Capacitive multitouch (PCT) Multi-touch touch panel touch sensor

VOLTAGE TYPE	DC
---------------------	----

Electrical rating

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 VAC
SUPPLY VOLTAGE AT AC, 50 HZ - MAX	0 VAC
SUPPLY VOLTAGE AT DC - MIN	18 VDC
SUPPLY VOLTAGE AT DC - MAX	36 VDC

System

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

Design verification

EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID	36 W
HEAT DISSIPATION CAPACITY PDISS	0 W
HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID	0 W
RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)	0 A
STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS	36 W
10.2.2 CORROSION RESISTANCE	Meets the product standard's requirements.
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.

Resources

BROCHURES	eaton-motor-starters-system-xstart-brochure-br03407001en-en-us.pdf
CASE STUDIES	Customer Success Stories - KBI Kieswerk and Baustoff-Industrie Kern GmbH and Co. KG
CATALOGUES	eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf
DRAWINGS	eaton-electronics-dimensions-xv-touch-panel-dimensions.eps eaton-operator-panels-xv-touch-panel-dimensions-004.eps eaton-electronics-dimensions-xv-touch-panel-dimensions-002.eps eaton-operator-panels-xp-panel-pc-dimensions-002.eps 2726DRW-104 eaton-general-xv-touch-panel-symbol.eps eaton-operator-panels-distance-3d-drawing.eps
ECAD MODEL	DA-CE-ETN.XP-503-15-A10-A00-1B
INSTALLATION INSTRUCTIONS	IL048006ZU
INSTALLATION VIDEOS	XP500 Industrial PC XP500
MANUALS AND USER GUIDES	MN048014_EN
MATERIAL SAFETY DATA SHEET (MSDS)	MSDS Panasonic Manganese Dioxide Lithium Battery (Series CR).pdf
MCAD MODEL	DA-CD-xp_503_15 DA-CS-xp_503_15
MULTIMEDIA	XP500 industrial PC - the powerful HMI solution (short version)
TEST REPORT	UN38.3 Panasonic CR2032.pdf

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.

PROJECT NAME:

PROJECT NUMBER:

PREPARED BY:

DATE:



Eaton Corporation plc Eaton House
 30 Pembroke Road
 Dublin 4, Ireland
 Eaton.com

Follow us on social media to get the latest product and support information.

