

VL3 UPC 2440 EDGE - Edge device



1760157

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Edge device with Virtual PLCnext Control as the central data collection and evaluation unit. In addition to the IEC 61131-3 control function, the Linux Ubuntu Pro Desktop offers simple expandability and convenient installation of software for data analysis.

Your advantages

- Pre-installed Virtual PLCnext Control real-time controller
- Pre-installed Linux Ubuntu Pro Desktop, easily expandable
- Expandable Linux Ubuntu Pro certified device, thus up to 10 years of update support
- Consistent graphical programming interfaces
- Numerous protocols supported such as: http, https, FTP, SNTP, SNMP, SMTP, SQL, MySQL, DCP, etc.
- Two independent Ethernet interfaces
- High-level programming languages: IEC61131-3, C/C++, MATLAB Simulink

Commercial data

Item number	1760157
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	DR12
Product key	DRBAAA
GTIN	4067923368491
Weight per piece (including packing)	1,320 g
Weight per piece (excluding packing)	960 g
Customs tariff number	84715000
Country of origin	TW

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Technical data

Notes

General	Only for industrial use
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Product properties

Product type	Controller
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Computer data

Trusted Platform Module	dTPM 2.0, Infineon® SLB9670 (Encryption Technology not Chinese)
Operating system	Linux Ubuntu Pro Desktop
RAM	16 GB LPDDR4
Data storage system	240 GB, 3D TLC (onboard)
Cooling	passive
Raid system	without RAID system

Display

MTBF	58,969 hours at 60°C
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System properties

Programmable under	High-level language
	IEC 61131-3

IEC 61131 runtime system

Program memory	4 Mbyte (IEC 61131-3)
Data storage system	6 Mbyte (IEC 61131-3)
Retentive data storage	No support for retentive data
Number of control tasks	4 (Tasks (1 x ESM))

Functionality

Programming languages supported	Instruction list (IL)
	Symbolic flowchart (SFC)
	Ladder diagram (LD)
	Function block diagram (FBD)
	Structured text (ST)
	C++
	C#
	Java
	Python®
	Simulink®

System requirements

Engineering tool	PLCnext Engineer
	Eclipse®
	Visual Studio®

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MATLAB®/ Simulink®

Electrical properties

Service life of battery	5 years (typical)
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Supply

Supply voltage	24 V DC 20 %
Max. current consumption	2.08 A (24 V DC)
Typical current consumption	0.58 A (24 V DC)

Real-time clock

Realtime clock	Yes (battery-backed)
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Connection data

Power supply

Connection method	Push-in spring connection
Conductor cross-section, rigid	0.2 mm² ... 1.5 mm²
Conductor cross-section, flexible	0.2 mm² ... 1.5 mm²
Conductor cross-section AWG	24 ... 16
Stripping length	10 mm

Interfaces

Interfaces	2 x USB 3.1 Gen. 1 - Typ A
	2x COM ports
Monitor output	1x DP++ 1.4
Network	2x Ethernet (10/100/1000 Mbps), RJ45
LAN chipset	Intel® i225-IT

Dimensions

External dimensions

Width / Height / Depth	100 mm / 50 mm / 100 mm (Housing dimensions)
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Material specifications

Housing material	Aluminum / steel sheet DC01
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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP30
Ambient temperature (operation)	-20 °C ... 60 °C (0...2000 m altitude, with 0.5 m/s air flow)
	-20 °C ... 54 °C (2001 ... 3000 m altitude, with 0.5 m/s air flow)
Ambient temperature (storage/transport)	-40 °C ... 70 °C
Altitude	3000 m (above sea level)
Permissible humidity (operation)	10 % ... 95 % (non-condensing)
Permissible humidity (storage/transport)	10 % ... 95 % (non-condensing)

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Shock	15g, 11 ms in accordance with IEC 60068-2-27
Vibration (operation)	1g, according to EN 60068-2-6

Approvals

Conformity/Approvals

Conformance	CE-compliant
UL, USA / Canada	UL 61010-1, UL 61010-2-201
	Class I, Div. 2, Groups A, B, C, D T4

Mounting

Mounting type	DIN rail mounting
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Approvals

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cULus Listed

Approval ID: E238705 D16:D1058



cULus Listed

Approval ID: US-UL-2412129-2

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Classifications

ECLASS

ECLASS-13.0	19200102
ECLASS-15.0	19200102

UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

China RoHS

Environment friendly use period (EFUP)	EFUP-15
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.

EU REACH SVHC

REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
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