

VL-700 BASE 2

Compact IoT controller, 64-bit, 4 cores, extended temperature range -20°-+60°C

Item no.: 12918

Interfaces:

2x Ethernet, 1x USB host (2.0), 1x serial (RS-232/RS-422/RS-485), 1x SD card, 1x expansion slot

Supply voltage: 24V DC



The **VL-700 BASE 2** is a compact IoT controller with a pre-installed software (ECS / EnOcean Controls System) to interpret and forward IoT data from EnOcean sensors to any cloud or BMS. It succeeds the VL-700 BASE in the same design and with the same connections.

In standard configuration, the VL-700 BASE 2 application uses MQTT as the data interface.

On request, also other interfaces like Modbus TCP or OPC UA can be integrated.

Below you will find the most important device features in tabular form. For further information, please refer to the manual.

Display

Type	No display
Resolution	-
Diagonal	-
Quantity colors	-
Backlighting	-
Brightness	-
Dimmable	-

System resources

CPU	64-bit RISC, 4 cores, 1.6 GHz
Operating system	LINUX RT
RAM	2 GB
Flash	4 GB eMMC (pSLC mode), plus 64 KB FRAM
Real time clock / RTC	Yes
RTC buffer	Battery
Signal generator	Yes

User interfaces

Touchscreen	No
Type	-

Other interfaces

Ethernet	2x 10/100 MBit
USB	1x Host V2.0, max. 500 mA
Serial	1x RS-232/RS-422/RS-485, configurable via software
SD card	Yes, 1x
Expansion slot	Yes, 1x

Supply

Supply voltage	24V DC (10..32V DC)
Current consumption	0.35 A max. @ 24 V DC
Fuse	Yes, electronic

Environmental conditions

Operating temperature	-20°..+60°C max. +50 °C with plug-in modules or USB devices
Storage temperature	-20°..+70°C
Humidity	5..85% relative humidity, non-condensing
Protection class	IP20

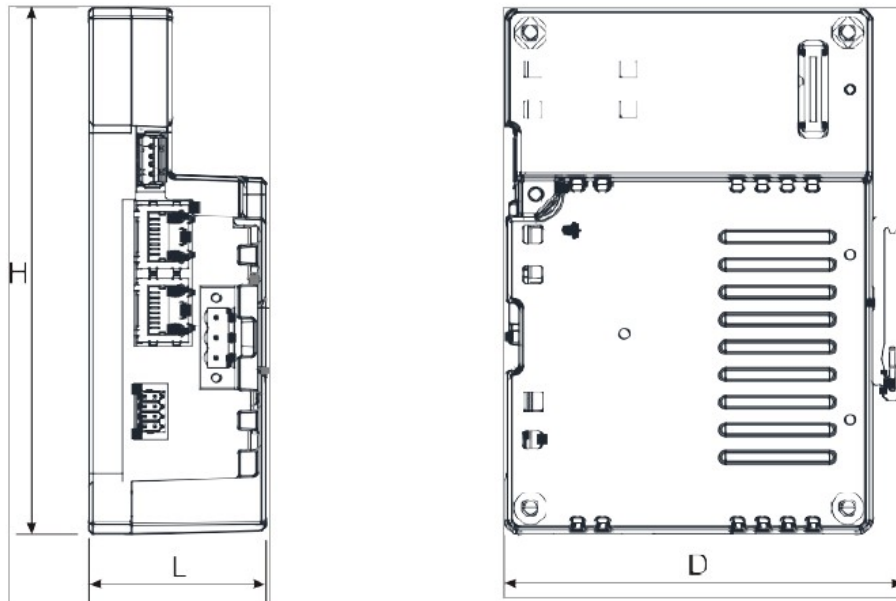
Dimensions and weight

Front panel (LxH)	45 x 134 mm
Depth (housing + front) (D+T)	102 mm
Weight	0.6 Kg

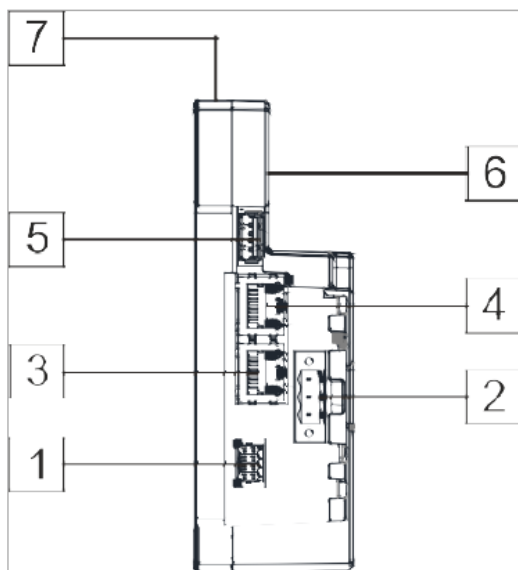
Tests / Approvals

CE	CE: EN IEC 61000-6-1/-2/-4:2019, EN 61000-6-3:2007+A1:2011+AC:2012, EN 61000-4-29:2000, EN 60945:2002
UL	UL: cULus UL 61010-1/-2-201, Class I Div 2
ATEX / IECEx	ATEX/IECEx zone 2: Ex ec IIC T5...T4 Gc, -20...+60 °C or 0...+50 °C
RCM	RCM: yes

Dimensions



Connections



- 1 Serial port
- 2 Powersupply
- 3 Ethernet port 1 (10/100 Mb)
- 4 Ethernet port 0 (10/100 Mb)
- 5 USB port 1
- 6 Expansion slots for plug-in modules
- 7 SD Card slot

Ordering information

Article text	Order number	Description
VL-700 BASE 2	12918	CPU module and IoT controller, 4 GB eMMC (pSLC), 2 GB RAM, 64 KB FRAM, 64-bit RISC quad core 1.6 GHz, Linux RT, 2x Ethernet Ports 10/100, 1x USB Host (2.0), 1x serial, 1x SD-Slot, 24 V DC, 0.35 A, IP20, Ambient temperature: extended, -20°C to +60°C with pre-installed ECS application, Dimensions: 45 x 134 x 102 mm

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