

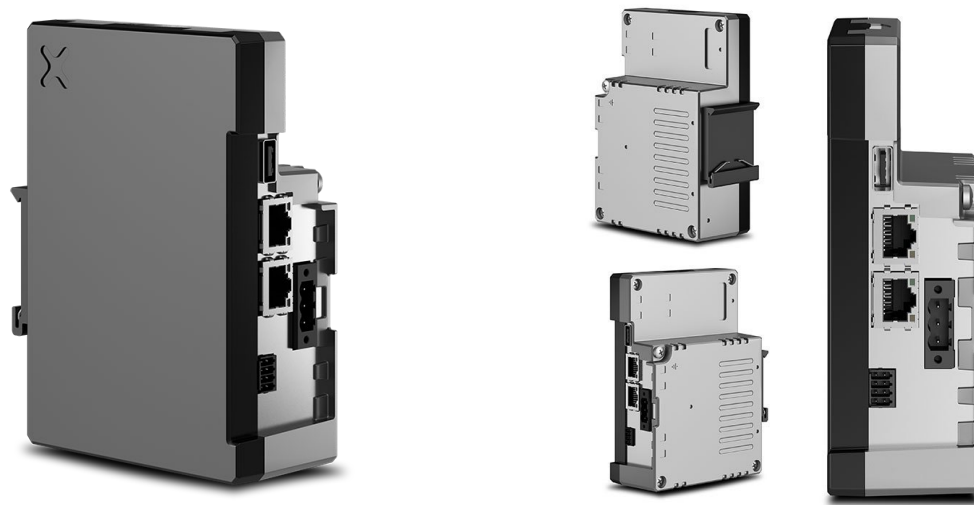
VL-700 BASE / IMDA SINGAPORE

Compact IoT controller , without TFT
extended temperature range -20°-+60°C

Item no.: 12802

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 1** is a compact controller with the same features as our operator panel VL-705 STYLE, but without display. Like the VL-705 STYLE, it has a large number of interfaces required for automation: 2x **Ethernet** 10/100, 1x **USB** host (2.0) as well as a combined **serial interface** (RS-232/RS-422/RS-485), 1x SD card.

High-quality user interface can be realized for the end devices such as tablet, smartphones or PC's via the web server of the compact control. The JMobile Studio software (not included in the scope of delivery of the device) is used to create the visualization, which offers the following essential options, among others:

- Full support of vector graphics (scaling, transparency, alpha blending)
- Data display: e.g. numeric, as text, bargraph, analog pointer instruments
- Functions such as data logger, trend displays, alarm handler, time-controlled functions (scheduler)
- User Management
- E-mail dispatch
- RSS feeds
- Large number of communication drivers available, several can be used simultaneously
- Online simulation and offline simulation available in JMobile Studio
- Extensive library of vector symbols and objects

In the following, 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	ARM Cortex A8 1 GHz
Operating system	LINUX RT
RAM	512 MB
Flash	4 GB
Real time clock / RTC	Yes
RTC buffer	Battery
Signal generator	No

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	0.5A max. @ 24V DC
Fuse	Yes, self-resetting

Environmental conditions

Operating temperature	-20°..+60°C Possibly lower, depending on plug-in module or USB
Storage temperature	-20°..+70°C
Humidity	5..85% relative humidity, non-condensing
Protection class	IP20

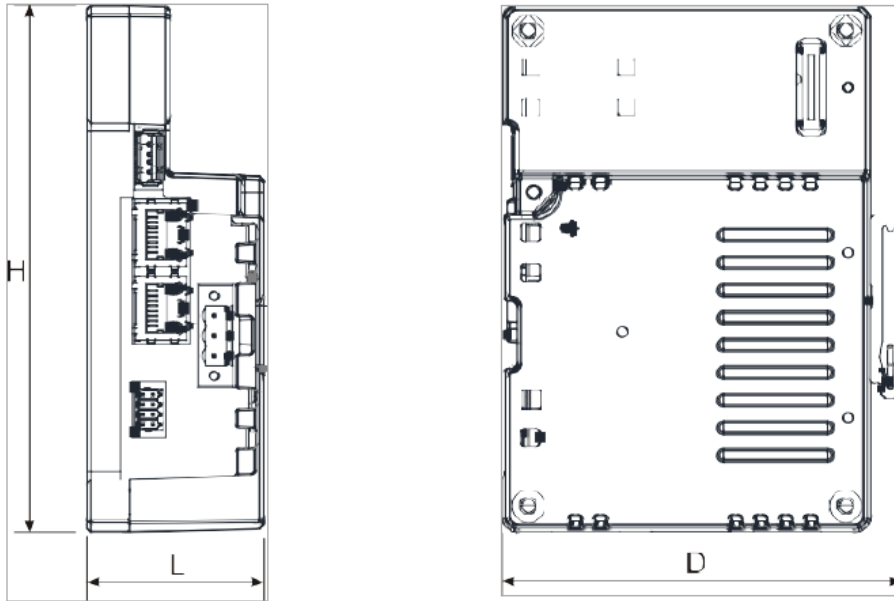
Dimensions and weight

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

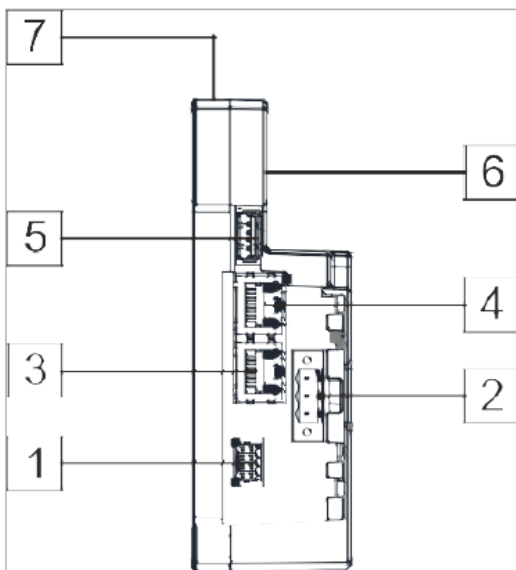
Tests / Approvals

CE	EN 61000-6-4 EN 61000-6-2, industrial environment EN 61000-6-3 EN 61000-6-1 EN 60945
UL	cULus: UL61010-1 / UL61010-2-201 cULus: Class 1 Div
IECEX	2 Zone 2: Ex nA IIC T5 Gc
ATEX	Zone 2: II 3 G Ex nA IIC T5 Gc
DNV-GL	Yes
RCM	Yes

Dimensions



Connections



- 1 Serial port
- 2 Power supply
- 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

Device label



Ordering information

Article text	Order number	Description
VL-700 BASE IMDA	12802	CPU module and IoT controller, 4 GB Flash, 512 MB RAM, ARM Cortex-A8 Single Core 1 GHz, Linux RT, 2x Ethernet Ports 10/100, 1x USB Host (2.0), 1x serial, 1x SD-Slot, 24V DC, 0.5A, IP20, Ambient temperature: extended, -20°C to +60°C with JMobile-Runtime, Dimensions: 45 x 134 x 102 mm; IMDA SINGAPORE



Version 1, 25.09.2023