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VMBSIG-V1 datasheet

Signum iot gateway

The Velbus Signum is an IoT Gateway for the Velbus home automation system. Its main functions are:

- to control your Velbus installation using an iOS app, Android app or browser on mobile devices (smartphone, tablet...)
- periodically sync the time on your Velbus installation with an NTP server
- time and date backup (48 hours) in case of power failure
- connect VelbusLink (Velbus configuration software) directly (with a USB cable plugged into the Velbus Signum, or an IP (LAN) connection)
- secure access to your Velbus Signum and home automation system from anywhere in the world

In the near future, the following functions will also be available:

- IoT gateway to allow integration/communication with other protocols
- advanced visual configuration of your Velbus installation (and connected systems)
- manually or periodically back-up your local Velbus project/settings on the Velbus Signum

The Velbus Signum is a DIN-rail module that is powered by and connected directly to the Velbus bus.

Protocol manuals for developers: available for download at https://github.com/velbus

Features

- carrier board with Computer-on-Module (COM) (RPI CM3+/16GB)
- RJ45 Ethernet port (10/100 Mbps)
- onboard USB A 2.0 host port (500 mA)
- onboard USB B 2.0 slave galvanic insulated Velbus configuration port
- a USB micro 2.0 console port
- onboard micro SD card slot for flash storage
- master clock for Velbus system with 48-hour time and date backup in case of power outage
- onboard CAN terminator switch
- PS (Power Supply), RX (CAN Receive), TX (CAN Transmit), RUN and ACT status LEDs
- DIN Rail mount and Velbus connector

Specifications

power supply	15 ± 3 VDC
power consumption	100 mA idle, 500 mA max
dimensions (l x h x d)	71 mm x 90 mm x 58 mm
DIN dimensions	4 modules
weight	128 g
ambient temperature	0°C - 40°C
minimal operation (charging) time need for time and date backup to function correctly	2 h