

FrogBox L2

Industrial controller for Automated Guided Vehicles

- Integrated terminal blocks
- Rugged industrial design
- Multiple dedicated i/o
- Single button On/Off logic
- Incl. license free Linux OS



The FrogBox L2 is an industrial controller for Automated Guided Vehicles (AGVs). It controls vehicle functions such as driving, steering, handling, communication and navigation. The embedded open source Linux OS ensures fast, reliable and robust control of your AGV. The FrogBox L2 can be used for all types of AGVs, from simple forklift vehicles to complex coil handling trucks. Integration of other Frog AGV com-

ponents such as the MMS L2 magnet detection sensor, C3 handling controller and Touch screen display, as well as third party components is readily accomplished. Two CAN ports enable the use of multiple CAN protocols within one AGV. The FrogBox L2 provides single button power control and stand-by mode for energy conservation.

www.frog.nl

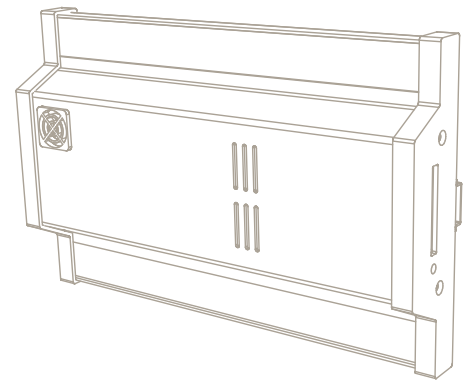
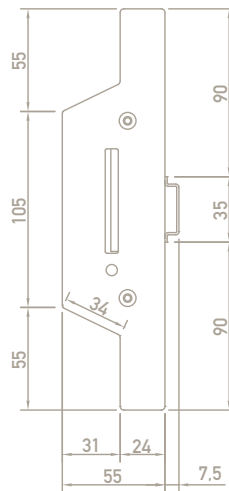
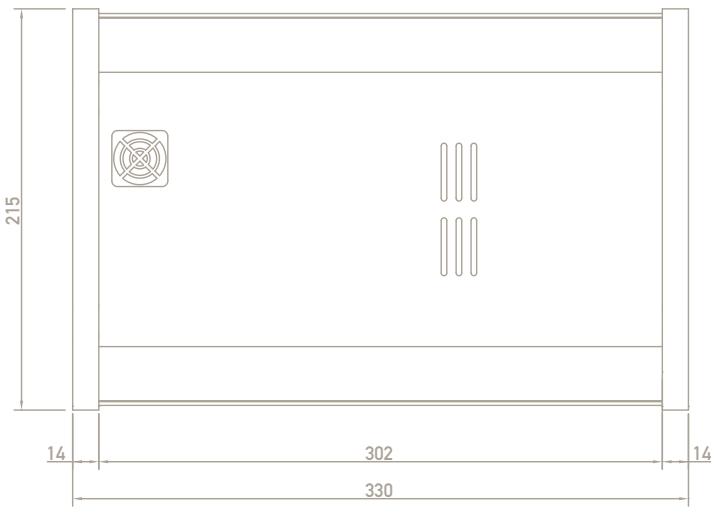


Built-In FrogBox



Automated Guided Vehicles





all dimensions in mm.

Specifications

platform	upgradeable ETX PC platform	
processor	AMD LX800, 500 MHz	
operating system	Linux	license free, industrial standard
hard disk	solid state Compact Flash Card, 256 Mb	
digital i/o	22 x input	galvanic isolation
	18 x output	with read back functionality
analog i/o	8 x input	12 bit resolution, with read back functionality input range -10V to +10V (7x) and 0V to +100V (1x)
	4 x output	12 bit resolution, with read back functionality
other i/o	6 x encoder	for 1-to-1 connection with SUBD9 incremental encoders, incl. 24V power supply with overload protection
	2 x PWM power outputs	max. 3 A
serial ports	4 x RS232	serial interfaces with hardware handshake
	2 x CAN	galvanic isolation
	2 x USB 1.1	half duplex high speed differential serial bus, e.g. for solid state disks
sound	SoundBlaster AC97, 16 bit stereo, full duplex controller	line in, line out (stereo), microphone in (mono)
ethernet	10/100 Mb, supporting IEEE 802.3x, full duplex flow control	e.g. for connecting WLAN radio units
other features	single button power control	
power consumption	run mode < 13 W, sleep mode 0.2 W	
EMC	complies with 89/336/EEC, EN 50081-2 and EN 50082-2	
operational temperature range	0 ° to 50 ° C	with LX800 CPU
humidity	10% to 90%, noncondensing	
protection class	IP40	
shock resistance	10/10 g/ms	IEC 68 part 2-6
vibration resistance	3/20...250 g/Hz	IEC 68 part 2-27
power	19 - 32 VDC	
dimensions, H x W x D	207 x 324 x 45 mm	
weight	2.3 kg	

Frog AGV Systems develops and markets Automated Guided Vehicle Systems (AGVS) and navigation hard- and software. We help our customers become more productive and save money by delivering material handling solutions that are flexible, reliable and cost-effective.

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