

CANLoRa



Introduction

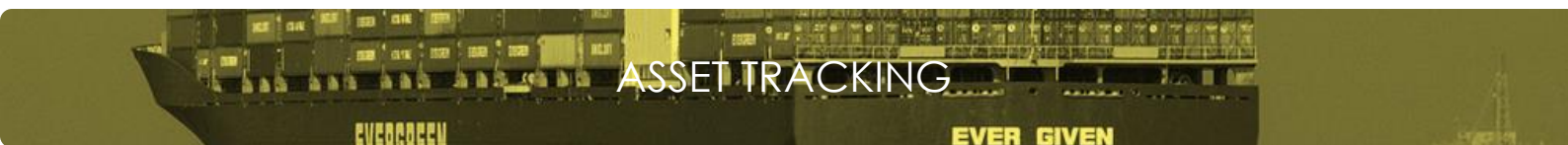
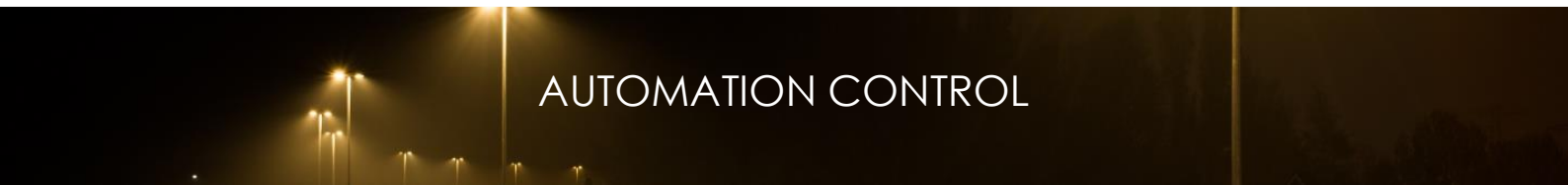
CANLoRa enables wireless communication for mobile and stationary machines. Monitor and manage remote installations in completely new ways. Low cost solution guarantee short return of investment. The hardware is small and easy to install in present or new machines. Internal or external antenna option gives full flexibility in range coverage. 15 km range or more can be achieved with good antenna configuration. CANLoRa uses the standardised wireless protocol LoRaWAN which make the device compatible with public LoRaWAN-networks. The CAN-interface can be used to read data from the machine it is connected to. Proven hardware ensures reliable operation in the most demanding applications.

Access the machines via a local LoRaWAN-gateway or public LoRaWAN-network provider.

Features

- Low cost
- Long range
- Wide supply voltage
- LoRaWAN-compatible
- Positioning possible using TDOA

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Technical specification

ELECTRICAL	
Operating voltage	7 – 36 VDC
Inputs	2xAIN (0-36 VDC)
Outputs	2xDOUT (PWM, 2A)
Protection	Reverse polarity, Over current
CAN	ISO11898, 2.0B, up to 1Mbps

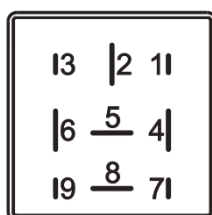
ENCLOSURE	
Material	Reinforced nylon, PA6.6-GP30
IP protection	IP53 (IP67 as option)
Size WxHxD	30x30x50mm+terminals
Color	Black
Socket	SAE 9-pin
Connector terminals	FASTON 5x6.3mm + 4x2.8mm
Temperature range	-40°C to +70°C
Weight	Approx. 20 g

RADIO	
Frequency range	860 – 1000 MHz
Max output power	+20 dBm
Encryption	AES128
Wireless range	>15 km (LOS)
Antenna connector (EXT-model)	SMA
Throughput	0.3 – 50 kbps
Radio chipset	SX1272
Radio protocol	LoRaWAN v1.0

CERTIFICATION (pending)	
CE, (FCC upon request)	
Fullfills directive	2014/53/EU
Applying standards	EN 300 220 V2.4.1 EN 61000-6-2:2005 and EN 61000-6-4:2007

Pinout

PIN	FUNCTION
1	AIN2 (0-36 V)
2	VDD (7-36 VDC)
3	CAN_H 120ohm (termination)
4	AIN1 (0-36 V)
5	OUT2 (2 A)
6	GND
7	CAN_H
8	OUT1 (2 A)
9	CAN_L



Ordering information

MODEL	PART NUMBER
CANLoRA-INT-EU	84 10 10
CANLoRa-EXT-EU	84 10 20

ACCESSORIES	
9-pin socket	55 15 10
FASTON Receptacle 6.3x0.8, 0.5-1.5mm2	55 30 05
FASTON Receptacle 6.3x0.8, 1.5-2.5mm2	55 30 06
FASTON Receptacle 2.8x0.8, 0.5-1.0mm2	55 30 11
Stub antenna	41 00 18
Remote antenna	41 00 19
2m Harness with socket	83 00 06



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