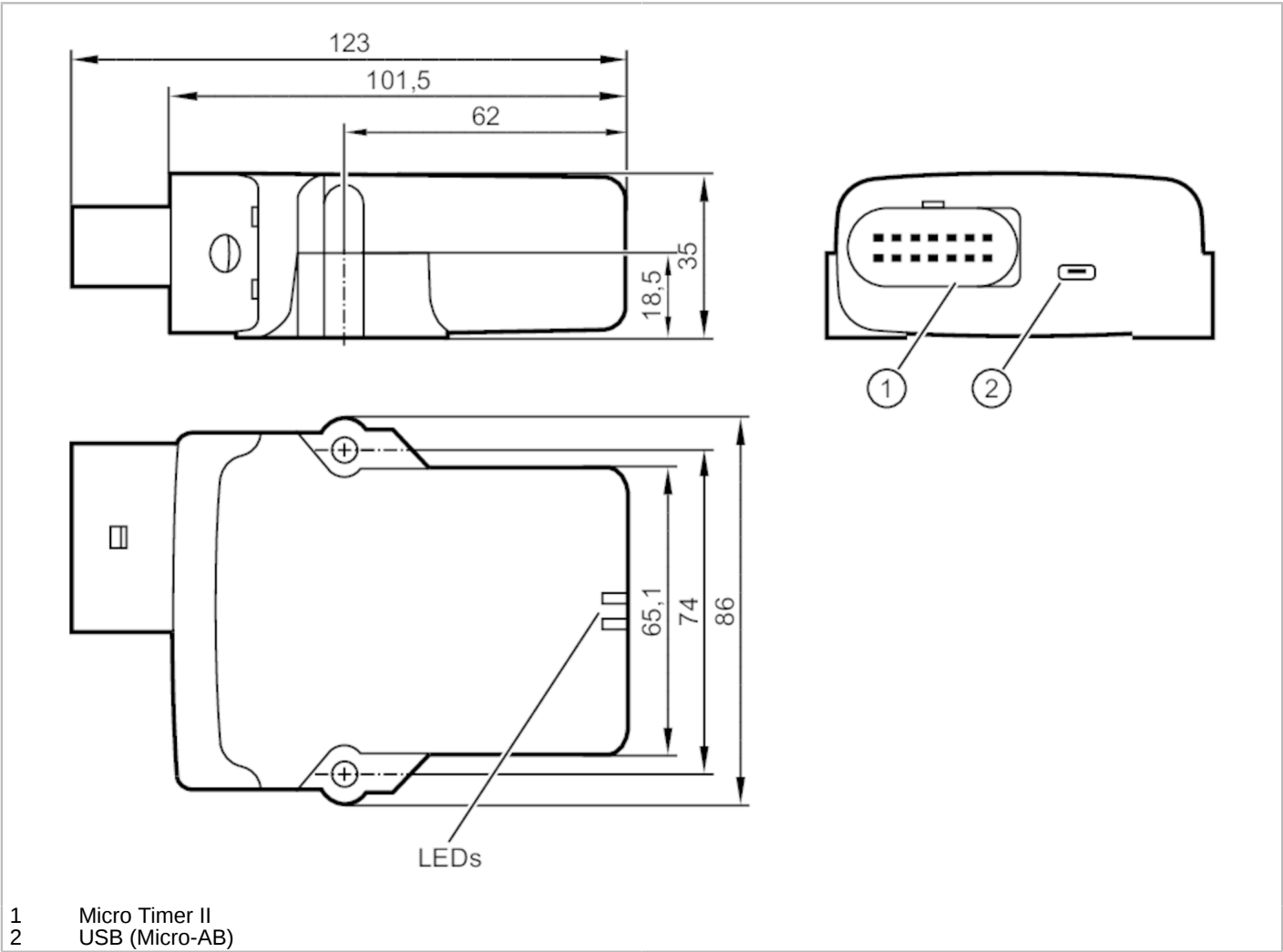




CAN LTE/GNSS radio modem

mIoT/Gateway 4G



Application

Radio approval for	EU/RED; USA; Canada
Note on radio approval	The list of countries applying the European Radio Equipment Directive 2014/53/EU (RED) can be found under “Downloads”.

Electrical data

Operating voltage	[V]	8...32 DC
Nominal voltage DC	[V]	12 / 24
Nominal voltage tolerance	[%]	50
Nominal voltage tolerance 2	[%]	50
Current consumption	[mA]	< 250; (normal operation; sleep mode: < 500 µA)

Inputs / outputs

Number of inputs and outputs	Number of analogue inputs: 3; Number of digital outputs: 1
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Inputs

Number of analogue inputs	3
Analogue input (voltage)	[V] 0...15
Resolution of analogue input	12 Bit



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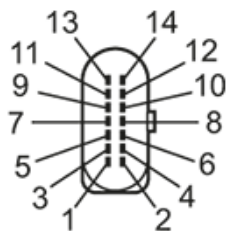
Outputs	
Number of digital outputs	1
Voltage range DC [V]	6...36
Permanent current rating of switching output DC [mA]	500
Measuring/setting range	
Resolution	16 bit
Acceleration measurement	
Resolution	16 bit
Sampling rate [Hz]	10
Number of measurement axes	3
Measuring range acceleration [g]	± 16
Inclination measurement	
Resolution	16 bit
Sampling rate [Hz]	10
Number of measurement axes	3
Measuring range vehicle yaw rate [°/s]	± 250
Interfaces	
Communication interface	CAN; Mobile networks
Number of CAN interfaces	1
Number of USB interfaces	1
CAN	
Interface	CAN Interface 2.0 A/B ISO 11898
GPS	
Note on interfaces	Antenna integrated
Mobile networks	
Transmission standard	GSM; GPRS; EDGE; UMTS; HSPA; 3G; 4G; LTE Cat-4
Frequency band	GSM / GPRS / EDGE / 2G: 850 / 900 / 1800 / 1900; UMTS / HSPA / 3G: 850 (B5) / 900 (B8) / 1700 (B4) / 1900 (B2) / 2100 (B1); 4G / LTE Cat 4: 700 (B12, B17) / 750 (B13, B28) / 800 (B20) / 850 (B5) / 900 (B8) / 1700 (B4) 1800 (B3) / 1900 (B2) / 2100 (B1) / 2600 (B7)
Note on interfaces	SIM card onboard Antenna integrated
USB	
Connector type	Mirco-AB
Usage type	firmware update
Operating conditions	
Ambient temperature [°C]	-40...85
Protection	IP 67
Tests / approvals	
Standard	EN 61000-6-2; EN 61000-6-3; IEC 62368-1; UN/ECE-R10; EN ISO 13766-1; ISO 7637-2; IEC 60068-2-30; IEC 60068-2-6; IEC 60068-2-27; IEC 60068-2-31



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Mechanical data		
Weight	[g]	233.7
Materials		housing: PA black
Displays / operating elements		
Display	status	2 x LED, multi-colour
Hardware		
Processor		ARM Cortex M4 based STM32 (168 MHz)
RAM		Program Flash: 1 MB FRAM: 32 KB SRAM: 1280 KB
Mass storage		128 MB
Data memories		
Real-time clock		yes; UTC, battery buffered
Remarks		
Pack quantity		1 pcs.
Electrical connection - plug		



1	supply VCC terminal 30
2	Factory setting 1 input
3	GND terminal 31
4	analogue input 1
5	analogue input 2
6	analogue input 3
7	digital output 1
8	digital input terminal 15
9	Factory setting 2 input
10	not used
11	not used
12	not used
13	CAN1_H
14	CAN1_L