



# synotec

## synotec CORE

### Specifications

#### General

Power	Operating Voltage: DC 8V to 32V
Internal Battery	Li-Polymer, 250 mAh
Temperature	-> Operating: -30 to +70 [°C] -> Storage: -40 to +80 [°C]
L x W x H	94 mm x 58.5 mm x 21 mm
Weight	92 g

#### GNSS Specifications

GNSS Type	u-blox All-in-One GNSS receiver
Sensitivity	Cold start: -148 dBm Hot start: -160 dBm Tracking: -167 dBm
Position Accuracy (CEP)	Autonomous: < 2m
TTFB (Open Sky)	Cold start: 24s average Hot start: 1s average

#### LTE Specifications

Operating Band	LTE-FDD: B1/B2/B3/B4/B5/B7/ B8/B20/B28
Data Transmission	LTE-FDD: Max 10Mbps (DL)/ Max 5Mbps (UL)

#### Connectivity

Bluetooth	LTE Cat 1 with 2G fallback
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#### GSM Specifications

Frequency	850/900/1800/1900 MHz
Data Transmission	EDGE: (DL) Max 236.8Kbps/ (UL)Max 236.8Kbps GPRS: (DL)Max 85.6Kbps/ (UL)Max 85.6Kbpsinput

#### Interfaces

Digital Inputs	1 x positive trigger input for ignition detection 3 x negative trigger inputs for normal use
Analog Input	1 x analog input (0V-16V) 1 analog input(0-30V)
Digital Output	1 x digital output
Latched Digital Output	1 x digital output one with internal latch circuit, open drain, 150 mA max drive current
Serial Port	1 x RS232 1 x RS485
GNSS Antenna	Internal antenna
BLE Antenna	Internal antenna
Indicator LED	Cellular network, GNSS, Power status, CAN/J1708/ Tachograph status