

Subject to alterations



Pictures may differ from original product.

CommPro X

The S4 is a compact LINUX communication and tracking unit. Based on the from sitec systems developed Linux S Core with ARM® Cortex™ A9 and an ARM® M4 a high performance and long term availability is achieved. For the programming Linux typical Open Source Tools are available.

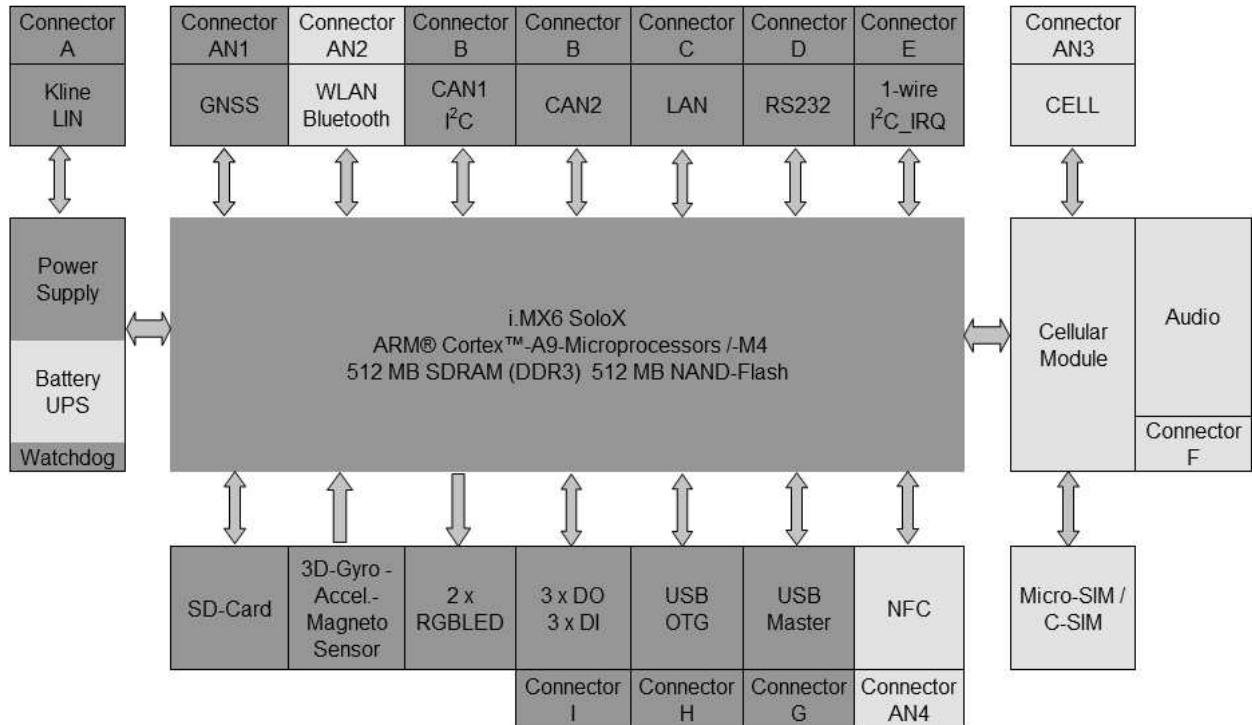
You can choose between the variants with dual band WLAN and the mobile radio standard from the second up to the fourth generation.

The used GNSS receiver is suitable for GPS, GLONASS, BEIDOU and Galileo. Position data without satellites are available via an integrated dead reckoning.

The equipment offers a wide range of interfaces and builds on the requirements of the automotive and industrial sector.

One of two CAN interfaces is galvanically isolated.

S4 Overview



Basic
Options (*)

Subject to alterations

Product codes

S4100	WLAN, Bluetooth 4.2, NFC
S4200	GSM, GPRS, EDGE, WLAN, Bluetooth 4.2, NFC
S4201	GSM, GPRS, EDGE
S4300	UMTS, HSDPA, GSM, GPRS, EDGE, WLAN, Bluetooth 4.2, NFC
S4301	UMTS, HSDPA, GSM, GPRS, EDGE
S4N00	LINUX Telematics Device, LTE Cat. NB1, WLAN, Bluetooth 4.2, NFC
S4N01	LINUX Telematics Device, LTE Cat. NB1
S4400	LTE Cat.1, GSM, GPRS, EDGE, WLAN, Bluetooth 4.2, NFC
S4401	LTE Cat.1, GSM, GPRS, EDGE

Characteristics

Bluetooth / NFC	Bluetooth 4.2 classic + LE Antenna-Connector AN2: FAKRA Antenna-Connector AN4: NFC
GSM / EDGE / GPRS	GSM 850/900/1800/1900 MHz EDGE Class 12 data rates, DL: max. 237 kbps, UL: max. 237 kbps GPRS Class 12 data rates, DL: max. 85.6 kbps, UL: max. 85.6 kbps CSD Data: up to 9.6 kbps V.110
UMTS / HSDPA / GSM / GPRS	UMTS 800/850/900/1700/1900/2100 MHz HSDPA DL Cat.8 / UL Cat.6, Dual Carrier, DL: max. 7.2 Mbps, UL: max. 5.76 Mbps GSM 850/900/1800/1900 MHz EDGE Class 12 data rates, DL: max. 237 kbps, UL: max. 237 kbps GPRS Class 12 data rates, DL: max. 85.6 kbps, UL: max. 85.6 kbps CSD Data: up to 9.6 kbps V.110
LTE Cat. NB1	LTE Cat. NB1 NB-IoT Bands 8, 20 LTE Cat. NB1 single-tone uplink DL: max 27.2 kb/s, UL: max 62.5 kb/s
LTE / GSM / EDGE / GPRS	LTE: Bands 3, 7, 20 (800/1800/2600 MHz) LTE Cat.1, DL: max. 10.2 Mbps, UL: max. 5.2 Mbps GSM 900/1800 MHz EDGE Class 12 data rates, DL: max. 237 kbps, UL: max. 237 kbps GPRS Class 12 data rates, DL: max. 85.6 kbps, UL: max 85.6 kbps
Processor	Antenna-Connector AN3: FAKRA ARM® Cortex™-A9, ARM® M4, i.MX6 SoloX, 800 MHz 512 MB SDRAM (DDR3) / 512 MB NAND-Flash
USB OTG	USB 2.0 full speed, 12 Mbps, Device Connector H: USB Type Mini B
USB Master	USB 2.0 full speed, 12 Mbps, Master Connector G: USB Type A
LAN	Ethernet 100 MB Connector C: RJ45
WLAN	WLAN 5 / 2,4 GHz Band, IEEE 802.11 a/b/g/n

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CAN1	<p>CAN 2.0B, 2Mbps Supports socket CAN Software controlled switchable terminating resistor Connector B: Molex Micro-Fit 3.0, 2x4 poles</p>
CAN2	<p>CAN 2.0B, 1Mbps Galvanically isolated Supports socket CAN Software controlled switchable terminating resistor Connector B: Molex Micro-Fit 3.0, 2x4 poles</p>
I ² C	<p>I²C 400 kbps, IRQ capability Connector B: Molex Micro-Fit 3.0, 2x4 poles</p>
3 x DO	<p>High-side-switch with a protection circuit Connector I: Molex Micro-Fit 3.0, 2x6 poles</p>
3 x DI	<p>Digital inputs, optical isolated Connector I: Molex Micro-Fit 3.0, 2x6 poles</p>
RS232	<p>RS232 4-wire Connector D: 9 poles SUB-D (f)</p>
KLine / LIN	<p>1200, 1195 Baud, 2 Stop bits KLine: 1200, 1195 Baud, 2 Stop bits 9600, 10400, 19200, 28800 Baud, 1 Stop bit Irritation: „near“, 5 Baud Connector A: Molex Micro-Fit 3.0, 2x2 poles OR LIN: LIN 20, 21, 22, 22A und J2602 Up to 20 kBaud Connector A: Molex Micro-Fit 3.0, 2x2 poles</p>
1-wire	<p>Standard and overdrive 1-wire communication Connector E: Molex Micro-Fit 3.0, 2x4 poles</p>
GNSS	<p>72 channel GNSS receiver GPS/QZSS L1 C/A GLONASS L10F BeiDou B1 Galileo Tracking sensitivity -167 dBm Trouble identification Supports A-GPS Supports SBAS (WAAS, EGNOS, MSAS and GAGAN) Horizontal accuracy: 2 m (CEP) Cold start TTFF 26 s Antenna-Connector AN1: FAKRA</p>
3D-Gyro-Acceleration-Magnetometersensor	<p>9-axis MEMS Motion Sensor: 3D-Accelerationsensor: $\pm 2g/\pm 4g/\pm 8g/\pm 16g$ 3D-Gyro: $\pm 250, \pm 500, \pm 1000, \pm 2000\%$sec 3D-Magnetometer: 0,15...4800μT Adjustable thresholds</p>
Real Time Clock (RTC)	<p>Buffered by battery or capacitor Holds time up to one year</p>
LED	<p>2 x RGB</p>
Audio	<p>Microphone- and loudspeaker connection Optimised for hands-free-mode Echo cancellation Noise reduction Connector F: RJ10 (4P4C)</p>
SD card	<p>Micro SD card slot SDHC, SDXC</p>

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Dual SIM	Micro SIM (accessible) and Component SIM
Power supply	7..42V DC Connector A: Molex Micro-Fit 3.0, 2x2 poles
Temperature range	Operation: -40°C to +75°C Shutdown at >80°C Storage: -40°C to +85°C
Housing	Aluminium profile housing black or aluminium colours Size: 105 x 80 x 40 mm Special designs upon request
OS	Linux 4.1
Tests/certifications/compliance	E1 048106, CE EN 55022/9.98+A1/10.00 +A2/1.03 EN 55024/9.98+A1/10.01 +A2/1.03) RoHS, FCC

Options

Accumulator	Internal Lilon accumulator with charging
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Antennae and cables

KA001-1030	GSM antenna, dashboard	FAKRA 300cm cable
KA002-1030	GSM antenna, window	FAKRA 300cm cable
KA003-1003	GSM/GNSS antenna, dashboard	FAKRA 30cm cable
KA003-1030	GSM/GNSS antenna, dashboard	FAKRA 300cm cable
KA004-1030	GSM/GNSS antenna, window	FAKRA 300cm cable
KA005-1015	GSM/GNSS/WLAN antenna, roof, IP65	FAKRA 150cm cable
KA005-1050	GSM/GNSS/WLAN antenna, roof, IP65	FAKRA 500cm cable
KA006-1015	GSM/GNSS antenna, roof, IP67	FAKRA 150cm cable
KA006-1030	GSM/GNSS antenna, roof, IP67	FAKRA 300cm cable
KA009-1050	GSM/GNSS/WLAN antenna, dashboard	FAKRA 500cm cable
KA010-1015	WLAN antenna, window	FAKRA 150cm cable
KA011-1003	GSM antenna, IP67	FAKRA 30cm cable
K0001-0000	4 poles cable	Molex, 4 poles → open ends, 150cm cable
K0002-0000	8 poles cable	Molex, 8 poles → open ends, 150cm cable
K0003-0000	12 poles cable	Molex, 12 poles → open ends, 150cm cable
KN001-0000	Power supply	Plug-in power supply, 4 poles, Molex, 150cm cable

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