

Subject to alterations



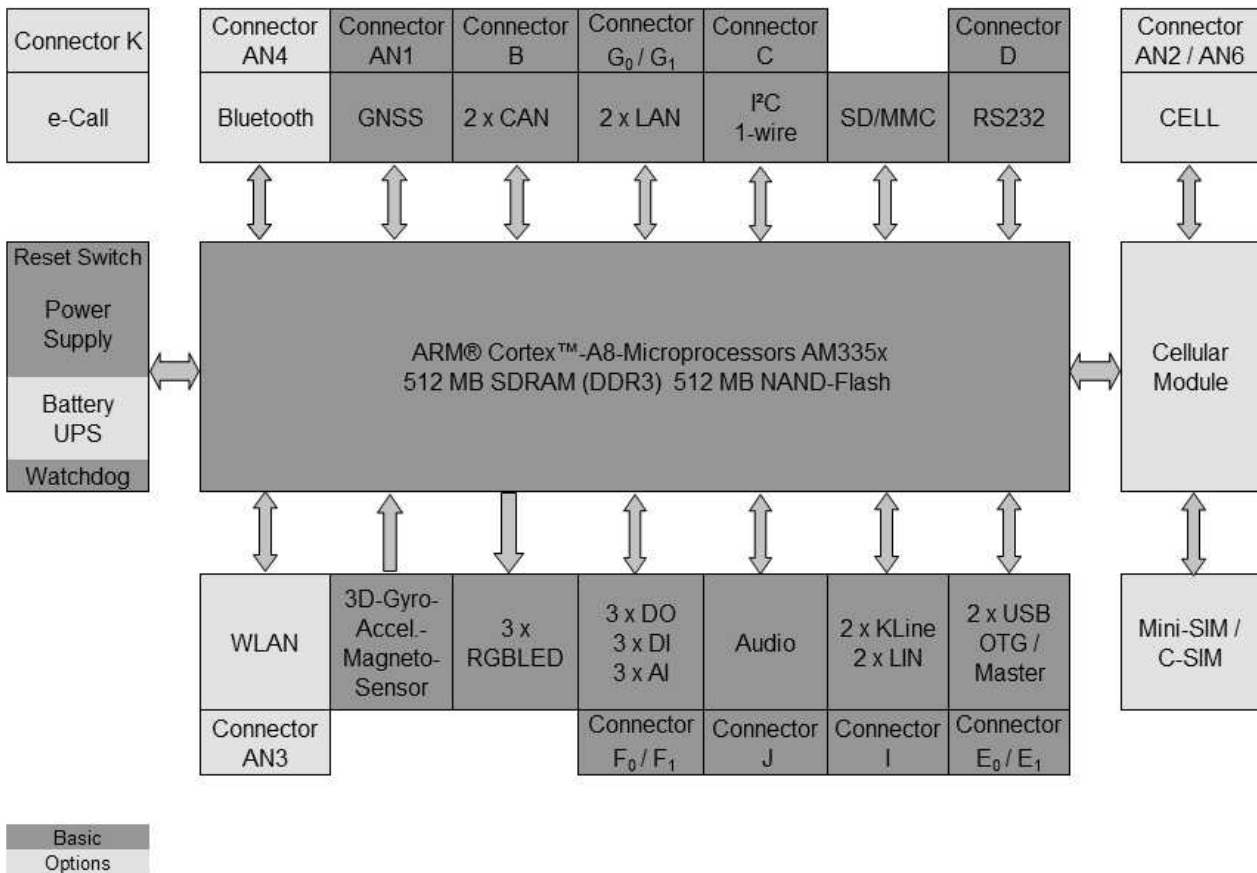
Pictures may differ from original product.

TrackPro X

The S7 is a free programmable Linux tracking and communication unit and comes in its standard configuration with a wide range of interfaces for the industrial and automotive sector. Selectable are the cellular radio standards 3G and 4G. Additional, further interfaces can be added if required using the internal Feature Connector (FC).

The software development can be realised with the known Open Source Tools. The device will be delivered with Linux 3.2 and a Board Support Package.

S7 Overview



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Product codes

S7100	WLAN
S7300	UMTS, HSPA+, GSM, GPRS, EDGE, WLAN
S7400	LTE Cat.3, GSM, GPRS, EDGE, WLAN

Characteristics

UMTS	<p>UMTS (WCDMA): 900/2100 MHz, FDD-Band (8,1) GSM 900/1800 HSPA+ DL Cat.24 / UL Cat.6, DL: max. 14.4 Mbps, UL: max. 5.76 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 CSD Data: up to 14.4 kbps V.110</p>
LTE Cat.3	<p>LTE: 800/900/1800/2100/2600 MHz, FDD-Band (20,8,3,7,1) UMTS (WCDMA): 900/1800/2100 MHz, FDD-Band (8,3,1) LTE Cat.3: DL: max. 100 Mbps, UL: max. 50 Mbps, 2x2 DL MIMO HSPA+ DL Cat. 24 / UL Cat. 6, Dual Carrier, DL: max. 42 Mbps, UL: max. 5.76 Mbps UMTS DL: max. 384 kbps, UL: max. 384 kbps 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</p>
Processor	<p>ARM® Cortex™-A8-Mikroprozessoren AM335x 800 MHz 512 MB SDRAM (DDR3) 512 MB NAND-Flash</p>
Dual-SIM	Mini SIM or Component SIM
RS232	<p>Complete RS232 Connector D: 9 poles SUB-D (f)</p>
2 x CAN	<p>CAN 2.0B, 1Mbps 2 receive buffer with priority message stores 6 29-bit filter 2 29-bit masks Software controlled switchable termination resistor Connector B: Molex Micro-Fit 3.0, 2x4 pole</p>
2 x LAN	<p>1 x Ethernet 1 Gbit 1 x Ethernet 100 MB Connector G: RJ45</p>
WLAN	<p>2,4 GHz Band, IEEE 802.11 b/g/n Connector AN3: FAKRA or internal antenna</p>
I ² C	<p>I²C 400 kbps Connector C: Molex Micro-Fit 3.0, 2x4 pole</p>
1-wire	<p>Standard and overdrive 1-wire communication Connector C: Molex Micro-Fit 3.0, 2x4 pole</p>
2 x LIN	<p>LIN 20, 21, 22, 22A and J2602 Up to 20 kBaud Connector I: Molex Micro-Fit 3.0, 2x2 pole</p>
2 x KLine	<p>1200, 1195 Baud, 2 Stop bits 9600, 10400, 19200, 28800 Baud, 1 Stop bit Irritation: „near“, 5 Baud Connector I: Molex Micro-Fit 3.0, 2x2 pole</p>

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3 x DI	Digital inputs, optical isolated
3 x DO	Digital outputs, optical isolated
	Connector F: Molex Micro-Fit 3.0, 2x6 pole
3 x AI	Analogue input 0-10 Volt Surge protection Connector F: Molex Micro-Fit 3.0, 2x6 pole
3 x LED	RGB LED programmable
SD card	SD card slot SDHC, SDXC
Protected key	Reset and start
GNSS	32 Channel GPS architecture Tracking sensitivity -162dBm GPS L1 Glonass L1, FDMA Galileo E1 Jammer rejection Supports A-GPS EGNOS, WAAS, MSAS Horizontal accuracy: 1.5 m (CEP), 3.5 m 2dRMS Speed accuracy < 0.05 m/s Course accuracy < 0.01° Hot start TTFF 1 s Cold start TTFF 35 s Antenna-Connector AN1: FAKRA or internal antenna
3D-Gyro-Acceleration-Magnetometer sensor	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..4800 μ T Adjustable thresholds
Real Time Clock (RTC)	Buffered by accumulator or capacitor Holds time up to one year
Audio	Only for device S7300 Microphone- and loudspeaker connection Optimised for hands-free-mode Echo cancellation Noise reduction Digital codec Connector J: RJ11
USB	USB 2.0 full speed, 12 Mb, OTG USB 2.0 full speed, 12 Mb, Master Connector E: USB Mini-B
Switch on via	Ignition input, RS232, USB, power supply, digital input, acceleration sensor, timer, button, CAN
Power supply	7..42V DC Connector: Molex Micro-Fit 3.0, 2x2 pole
Temperature range	Operation: -40°C to +80°C Switching of automatically at >80°C Storage: -40°C to +80°C
Housing	Type 1: Aluminium profile housing Size: 165 x 85 x 40 mm Type 2: Outdoor housing, die-cast-aluminium housing IP65 Size: 205 x 140 x 86 mm

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OS	Linux 3.2
Tests/certifications/compliance	E1 047477, CE EN 55022/9.98+A1/10.00 +A2/1.03; RoHS

Options

e-Call-Button	Separate e-Call button with line monitoring and signalling Class 1, 2.1, DER
Bluetooth	Supports 802.11 coexistence Antenna connector AN4: FAKRA or internal antenna
Accumulator	1.000..20.000 mAh Accumulator with charging controller and monitoring

Extensions

A7004	FC7-GSM	Voice Modem
A7005	FC7-CAN	CAN-Schnittstelle

Antennae and cables

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
K0001-0000	4 poles cable	Molex, 4 poles → open ends, 150cm cable
K0007-0000	6 poles cable	Molex, 6 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, Molex, 4 poles, 150cm cable

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