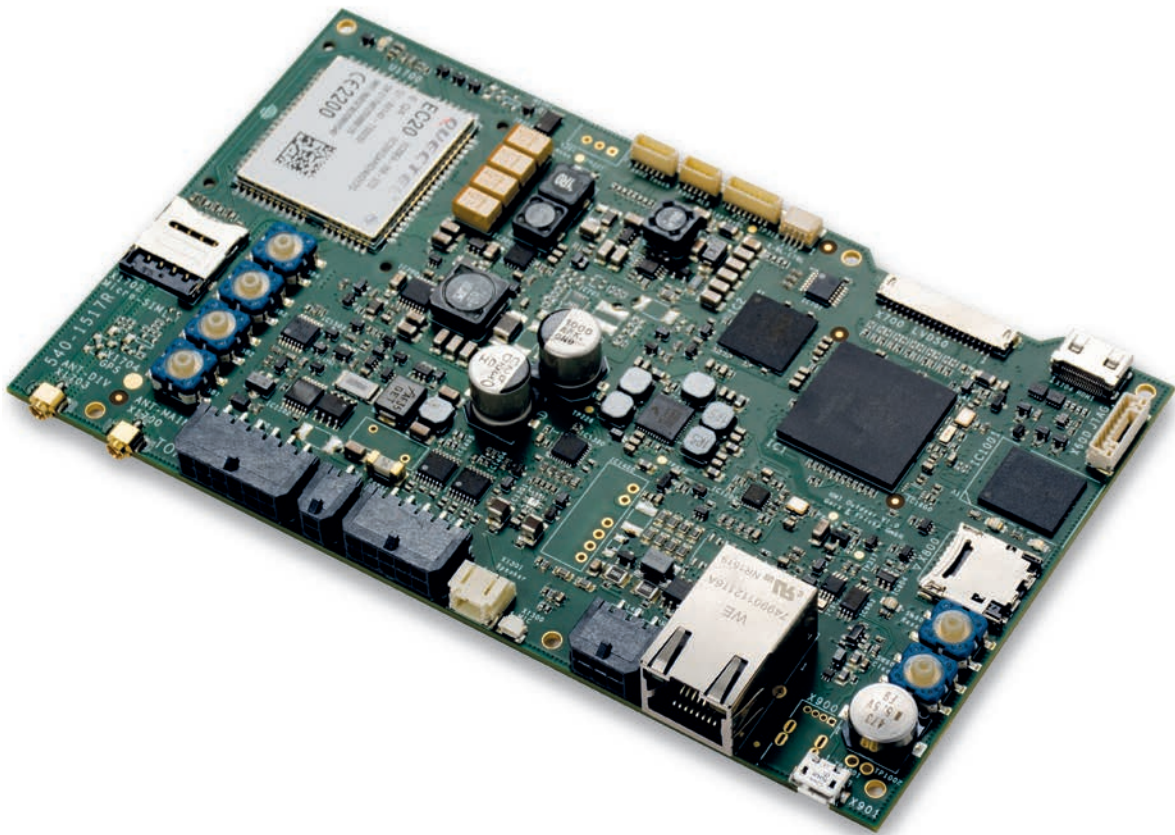




















## SANTVEND BATTERY core

ARM Cortex-A9 IOT Single Board Computer

coming soon  
subject to change



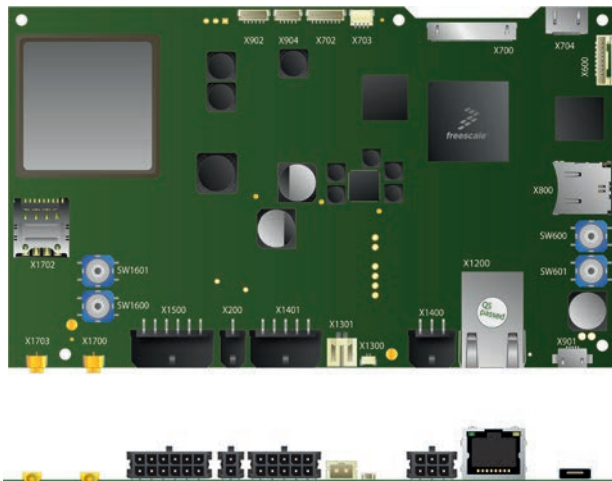
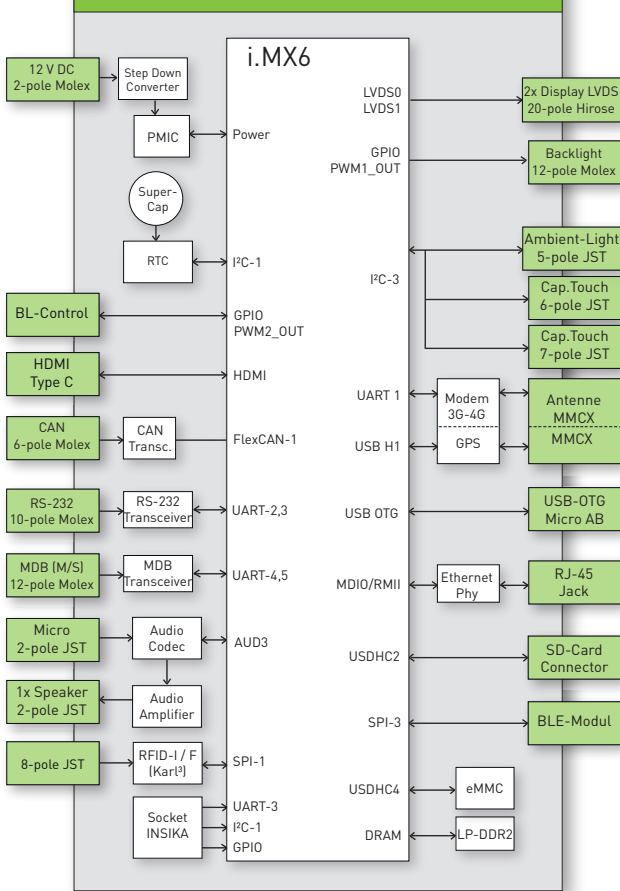
Outdoor Vending / IOT board for 12 V operation with optimized power management.

# TECHNICAL SPECIFICATION

## SANTVEND BATTERY Single Board Computer

Block Diagram SANTVEND-BATTERY



CPU	x1
CPU Type	i.MX6Solo
Core Class	ARM Cortex - A9
Core Clock	1 GHz
Features	NEON for SIMD media acceleration and VFP operations; Multi-format HD 1080p video decoder and HD 720p video encoder hardware engine; L1 cache, 32 KB for instruction, 32 KB for data; 512 KB L2 cache
HW Accelerators	Open VG 1.1 (Emulated on 3D GPU)
RTC	Accuracy: +/- 30 ppm at 25°C
Super Cap	Buffer for 24h
<b>Memory</b>	
eMMC Flash	4 GB MLC eMMC
RAM Standard	1 GB 32 bit LP-DDR2
Micro SD Card Slot	4 bit MMC/SDIO/SD/SDHC
<b>Operating Systems</b>	
Supported OS	Linux Yocto
<b>Communication Interfaces</b>	
Network	1x 10/100 Mbit/s Ethernet (RJ-45)
USB 2.0	1x 480 Mbit/s OTG (Type Micro-AB)
CAN Fieldbus	1x CAN (ISO/DIS 11898); WakeUp IN
MDB	1x Master, 1x Slave
Modem	3G / 4G, GPS (optional); Micro Sim Socket
RS-232	WakeUp IN @ RS-232 Con. 1x RS-232 (RX/TX/CTS/RTS) and 1x RX, TX
Synchronous Serial Interfaces	SPI up to 2 chip selects; Pinning for RFID-I / F (Karl <sup>3</sup> )
BLE Module	Single Mode BLE V 4.0 Slave
INSIKA	Socket for optional Smart-Card Interface (Plug In)
Misc.	2x Service Button
<b>Video</b>	
Video Output	HDMI 1.4 Type C Connector; + On / Off, PWM 2nd Backlight control con.
<b>Audio</b>	
Speaker Output	1x speaker (connector), 1 W RMS (8Ω)
Micro IN	1x microphone connector
<b>Display and Touch</b>	
Display Interface	Dual Channel 24bpp LVDS
Sensor	Ambient-Light-Sensor (external via I2C)
Touch Interface	PCAP I2C
Backlight Interface	+12 V, 3.3 V, on/off, PWM
<b>Device Dimensions</b>	
W x H x D	160 x 19 x 95 mm; PCB 160 x 95 mm
Weight	115 g
<b>Power Supply</b>	
Supply Voltage	Nom. 12 V DC / max. 9 to 17 V DC
Consumption	Typ. 3.0 W; max. tbd.
Powermanagement	Sleep Mode; I <sub>sleep</sub> < 3 mA @ 12 V
<b>Typical Environmental Conditions</b>	
Storage Temp.	-20 to +70 °C
Operating Temp.	-20 to +60 °C
Humidity	5 to 90 % RH

"THIS PRODUCT CAN BE MODIFIED BY ALTERNATIVE ASSEMBLY. PLEASE CONTACT US FOR AVAILABLE OPTIONS."