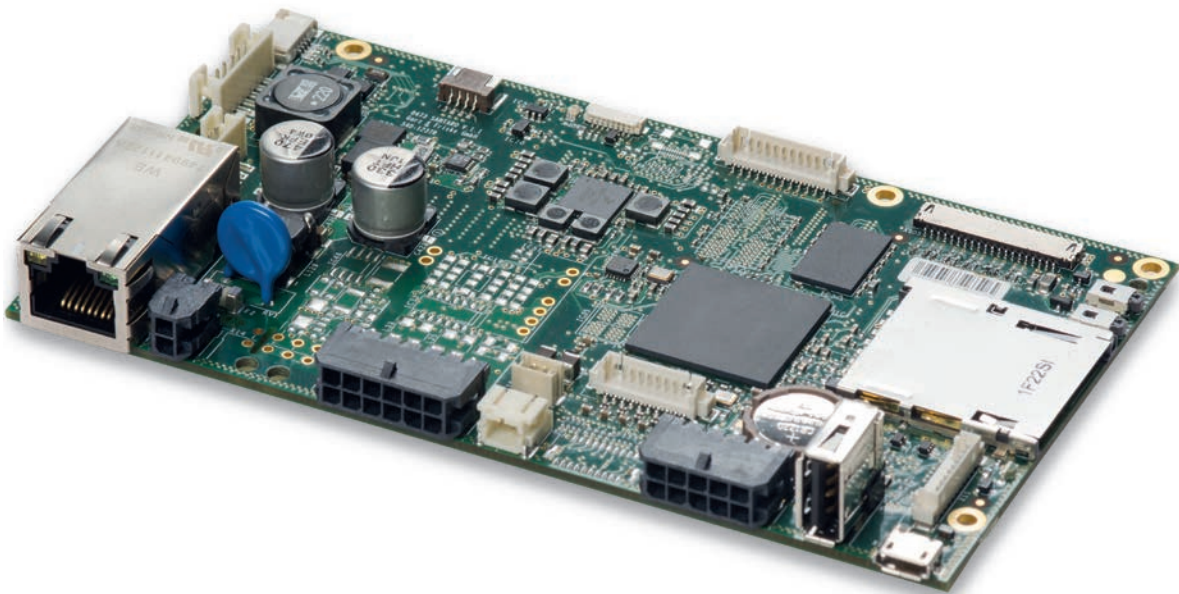
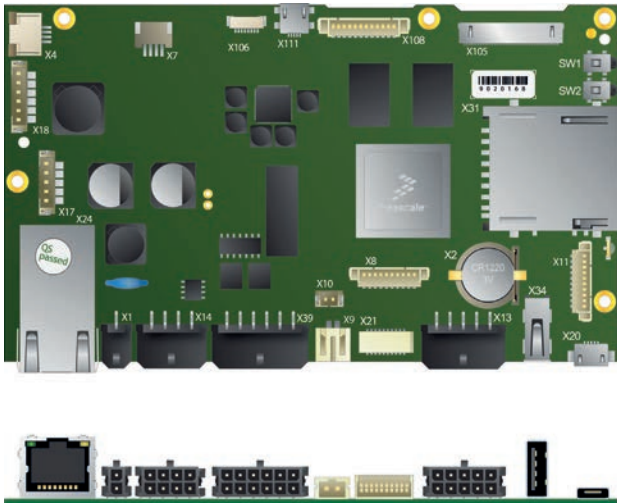
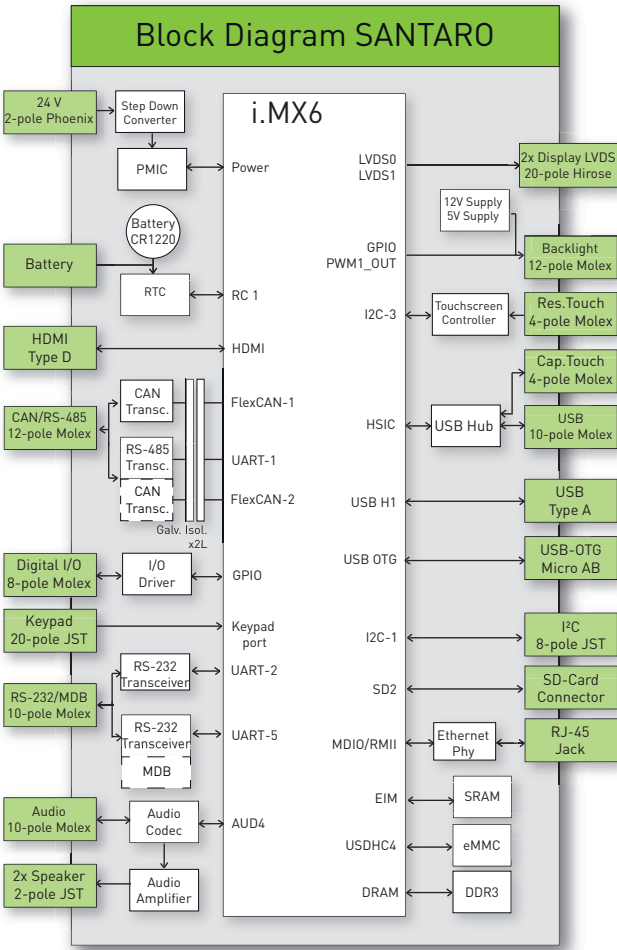


SANTARO core
ARM Cortex-A9 Single Board Computer

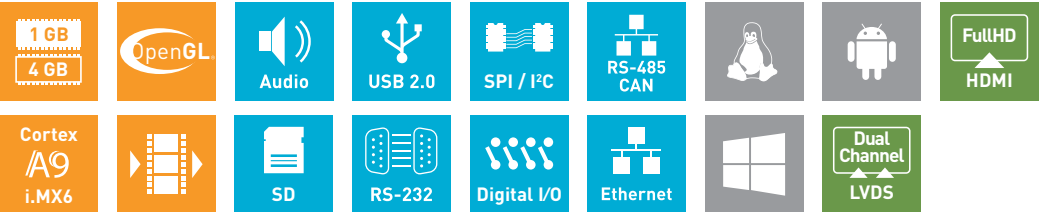


The Garz & Fricke business class: Flexible, powerful all-rounder for any demanding applications.

TECHNICAL SPECIFICATION
SANTARO Single Board Computer



CPU	x1		x2	
CPU Type	i.MX6Solo		i.MX6Dual	
Core Class	ARM Cortex - A9			
Core Clock	1 GHz			
Features	NEON for SIMD media acceleration and VFP operations; Multi-format HD 1080p video de-coder and HD 720p video encoder hardware engine; L1 cache, 32 KB for instruction, 32 KB for data			
	512 KB L2 cache		1 MB L2 cache	
HW Accelerators	OpenGL ES 2.0, OpenVG 1.1			
RTC	Accuracy: +/- 30 ppm at 25°C			
Memory				
eMMC Flash	4 GB eMMC Flash			
RAM Standard	1 GB 32 bit DDR3L		1 GB 64 bit DDR3L	
SD Card Slot	4 bit MMC/SDIO/SD/SDHC			
Operating Systems				
Supported OS	Windows Embedded Compact 7/2013, Linux Yocto, Android			
Communication Interfaces				
Digital I/O	2x In, 2x Out (0.7 A)			
Network	1x 10/100 Mbit/s Ethernet (RJ-45)			
USB 2.0	1x 480 Mbit/s Host (Type A)			
	1x 480 Mbit/s OTG (Type Micro-AB)			
CAN Fieldbus / RS-485	1x CAN (ISO/DIS 11898) + 1x RS-485		1x CAN (ISO/DIS 11898) + 1x RS-485 galvanic isolated	
RS-232	2x RS-232 (RX/TX/CTS/RTS)			
Synchronous Serial Interfaces	SPI up to 12 chip selects; I²C; Matrix keypad up to 8 x 8			
Video				
Video output			Full HD micro HDMI	
Audio				
Speaker output	1x speaker (connector), 1.5W RMS (8Ω)			
Audio Internal	1x speaker connectors parallel to external output, Line In, Line Out, MIC In			
Display and Touch				
Display Interface	Dual Channel 24bpp LVDS			
Touch Interface	4-wire analog resistive; PCAP I²C			
Backlight Interface	+12 V, +5V, on/off, PWM			
Device Dimensions				
W x H x D	138.0 x 18.0 x 80.0 mm			
Weight	97g			
Power Supply				
Supply Voltage	Nom. 13 to 32 V DC, max. 9 to 32 V DC			
Consumption	Typ. 2.6 W; max. 19.6 W			
Typical Environmental Conditions				
Storage Temp.	-20 to +70 °C			
Operating Temp.	0 to +60 °C			
Humidity	5 to 90 % RH			
Expansion Conector				
Serial / USB	USB / RS 232 (TTL) Internal			



Online support on www.garz-fricke.com

„This product can be modified by alternative assembly. Please contact us for available options.“