

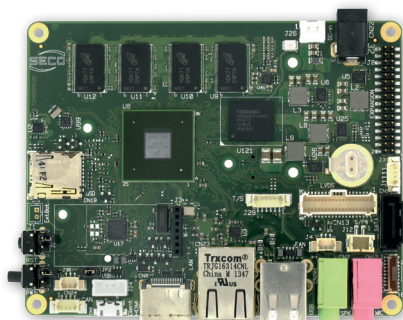
Single Board Computer



SBC-A62-J

SBC with NXP i.MX 6 Processor

Flexible, Open-source, Industrial SBC



HIGHLIGHTS



CPU
Single-, Dual- and Quad- Core (ARM® Cortex® A9 Cores)



CONNECTIVITY
Wi-Fi add-on module; up to 28 GPIOs; CAN Bus



GRAPHICS
2D/3D dedicated graphics processors



MEMORY
Up to 2GB DDR3L on-board

Available in Industrial Temperature Range



DEVELOPMENT SAMPLING PRODUCTION

MAIN FIELDS OF APPLICATION



Digital Signage -
Infotainment



Industrial Internet
of Things



Point of Sales

This board is available in 4 configurations:

SBC-A62-J-SOLO
SBC-A62-J-LITE
SBC-A62-J-PLUS
SBC-A62-J-QUAD

FEATURES

Processor	NXP i.MX 6 Family, based on ARM Cortex-A9 processors: SBC-A62-J-SOLO: Single Core (i.MX6S) @1GHz SBC-A62-J-LITE: Dual Core Lite (i.MX6DL) @1GHz SBC-A62-J-PLUS: Dual Core Plus (i.MX6DP) @1GHz SBC-A62-J-QUAD: Quad Core (i.MX6Q) @1GHz	Serial Ports	Debug UART interface, TTL voltage level. SBC-A62-J-LITE, SBC-A62-J-PLUS and SBC-A62-J-QUAD: dedicated CAN Bus connector (Transceiver CAN 3.3V) Other serial interfaces on the expansion connector: SBC-A62-J-SOLO: 1 x Serial (TTL level) - 2 x Serial (RS-232) - 2 x CAN (TTL level); SBC-A62-J-LITE: 1 x Serial (TTL level) - 2 x Serial (RS-232) - 1 x CAN (TTL level); SBC-A62-J-PLUS and SBC-A62-J-QUAD: 1 x Serial (RS-485) - 2 x Serial (RS-232) - 1 x CAN (TTL level)
Max Cores	4	Other Interfaces	Dedicated connector (I2C, GPIO signals) for external Touch Screen controller; MIPI-CSI Camera connector; Configurable* expansion connector with: Up to 28 GPIO - SPI interface - SPDIF Audio interface - CAN interface (TTL level) - SDIO interface - 3 x PWM - I2C - UARTs
Memory	Soldered on-board DDR3L memory***: SBC-A62-J-SOLO: 512MB 32-bit interface SBC-A62-J-LITE: 1GB 64-bit interface SBC-A62-J-PLUS: 2GB 64-bit interface SBC-A62-J-QUAD: 1GB 64-bit interface	Power Supply	+12V _{DC} ; Additional embedded Low Power RTC; SBC-A62-J-SOLO and SBC-A62-J-LITE: internal i.MX6 Real Time Clock (external battery required for time/date retention, not included) SBC-A62-J-PLUS and SBC-A62-J-QUAD: low power Real Time Clock with onboard battery
Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D OpenVG™ accelerator (only SBC-A62-J-PLUS and SBC-A62-J-QUAD) HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4 / XviD, H.263, H.264, DivX SBC-A62-J-SOLO and SBC-A62-J-LITE support up to 2 independent displays SBC-A62-J-PLUS and SBC-A62-J-QUAD support up to 3 independent displays	Operating System	Free Android and Linux community BSP available at UDOO.org SECO Android (under development) and Linux BSP / WEC7 on request. Yocto Guideline valid for SECO BSP
Video Interfaces	1 x Dual Channel or 2 x Single Channel 18 / 24 bit LVDS interface HDMI interface 1.4	Operating Temperature**	0°C ÷ +60 °C (Commercial temp.) For Industrial temp. (-40°C ÷ +85°C) please contact us
Video Resolution	HDMI: up to 1920 x 1080p LVDS: up to 1920 x 1200	Dimensions	110 x 86.5 mm (4.5" x 3.7")
Mass Storage	4GB eMMC drive soldered on-board*** microSD Card slot SBC-A62-J-PLUS and SBC-A62-J-QUAD: SATA connector	* Please note that some of these interfaces are factory options, other configurations are made via SW. ** Measured at any point of SECO standard heatspreader for this product, during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider application-specific cooling solutions for the final system to keep the heatspreader temperature in the range indicated. *** For additional configurability please contact us.	
Networking	Gigabit Ethernet connector Internal USB connector for Wi-Fi Module		
USB	2 x USB 2.0 Type-A ports and 1 x USB 2.0 internal connector USB micro-B Client port		
Audio	SBC-A62-J-LITE, SBC-A62-J-PLUS and SBC-A62-J-QUAD: AC'97 Audio Codec Realtek ALC655 with Mic-In, Line-Out audio Jacks		

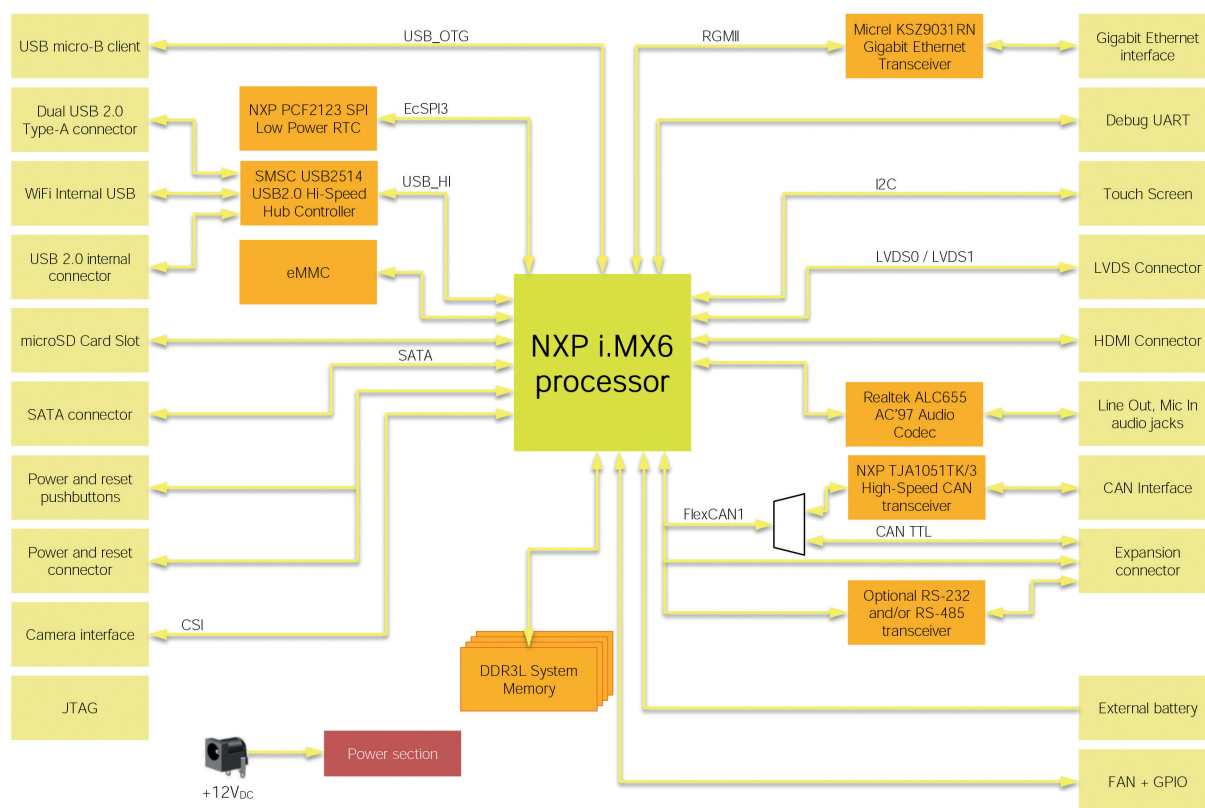


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SBC-A62-J

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BLOCK DIAGRAM



ORDERING INFORMATION

PN*	DESCRIPTION
SYS-A62-SOLO-CSCW	SBC-A62-J System, SOLO version (CPU 1GHz i.MX6 Solo) w/Small Heatsink and Serial Debug kit, commercial temperature, w/Demo Linux BSP
SYS-A62-LITE-CSCW	SBC-A62-J System, LITE version (CPU 1GHz i.MX6 DualLite) w/Small Heatsink and Serial Debug kit, commercial temperature, w/Demo Linux BSP
SYS-A62-PLUS-CLCW	SBC-A62-J System, PLUS version (CPU 1GHz i.MX6 DualPlus) w/Large Heatsink and Serial Debug Kit, commercial temperature, w/Demo Linux BSP
SYS-A62-QUAD-CLCW	SBC-A62-J System, QUAD version (CPU 1GHz i.MX6Q Quad) w/Large Heatsink and Serial Debug kit, commercial temperature, w/Demo Linux BSP

*Additional configurations may be available. Please inquire for more information.

ACCESSORIES

PN	DESCRIPTION
VA09-0000-0000-C0	Kit Camera 5MP
VA09-0000-1000-C0	Kit Camera 5MP sensitive to IR Light
PWK-003	Power supply kit: Power brick [EA1050A(M03) 60W, 12V 5A] + Power cord (CV-AL006) + adapters (EU;US;JPN etc.)
KIT-WIFI-3M08-1	Wi-Fi kit w / GWF-3M08-50-B and On-Board Antenna
KIT-WIFI-3M08-2	Wi-Fi kit w / GWF-3M08-50-B and 2,4 GHz PCB Antenna
KIT-7INCH-SA62	KIT LCD 7" - Touch
KIT-15INCH-SA62	KIT LCD 15,6"
CABKITA62-DEBUG	Debug kit for SA62 complete of M863 transceiver module
CABKITA62	Connection Cables Kit for SA62
4026241L21610	External RTC battery



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