



SECOSBC-A62



Single Board Computer with Freescale™ i.MX6 Processor



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



Graphics
2D/3D dedicated graphics processors



Memory
Up to 2GB DDR3L onboard



Temperature
Available in commercial temperature range, 0°C ÷ +60°C



FEATURES

	Processor	Freescale™ i.MX6 Family, based on ARM Cortex-A9 processors: SECOSBC-A62-SOLO : Single Core i.MX6S @1GHz SECOSBC-A62-LITE : Dual Core Lite (i.MX6DL) @1GHz SECOSBC-A62-QUAD : Quad Core (i.MX6Q) @1GHz
	Max Cores	4
	Memory	Soldered onboard DDR3L memory (*): SECOSBC-A62-SOLO : 512MB 32-bit interface SECOSBC-A62-LITE : 1GB 64-bit interface SECOSBC-A62-QUAD : 1GB 64-bit interface
	Graphics	Integrated Graphics, with up to 3 separate HW accelerators for 2D, OpenGL® ES2.0 3D HW encoding of MPEG-4, H.263 V2, H.264, MJPEG HW decoding of MPEG-2, VC1, MPEG-4/Video, H.263, H.264, DivX SECOSBC-A62-QUAD : OpenVG™ accelerator SECOSBC-A62-SOLO and SECOSBC-A62-LITE supports up to 2 independent displays SECOSBC-A62-QUAD supports up to 3 independent displays
	Video Interfaces	1 x Dual Channel or 2 x Single Channel 18/24 bit LVDS interface HDMI connector (*)
	Video Resolution	HDMI up to 1920 x 1080p LVDS up to 1920 x 1200
	Mass Storage	4GB eMMC disc soldered onboard (*); microSD Card slot SECOSBC-A62-QUAD : SATA connector
	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	SECOSBC-A62-LITE and SECOSBC-A62-QUAD : AC'97 Audio Codec Realtek ALC655 with Mic-In, Line-Out audio Jacks (*)
	Serial Ports	SECOSBC-A62-LITE and SECOSBC-A62-QUAD : dedicated CAN Bus connector (Transceiver CAN 3.3V) Debug UART interface, TTL voltage level. Other Serials on expansion connector: SECOSBC-A62-SOLO : 1 x Serial (TTL interface) - 2 x Serial (RS-232 interface) - 2 x CAN (TTL interface); SECOSBC-A62-LITE : 1 x Serial (TTL interface) - 2 x Serial (RS-232 interface) - 1 x CAN (TTL interface); SECOSBC-A62-QUAD : 1 x Serial (RS-485 interface) - 2 x Serial (RS-232 interface) - 1 x CAN (TTL interface)
	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
	Power Supply	+12VDC; Embedded additional RTC circuitry for lowest power consumption; SECOSBC-A62-SOLO and SECOSBC-A62-LITE : internal i.MX6 Real Time Clock (requires external battery, not included) SECOSBC-A62-QUAD : low power Real Time Clock with onboard battery
	Operating System	Linux Android
	Operating Temperature**	0°C ÷ +60 °C (commercial temp.) For industrial temp. (-40°C ÷ +85°C) please contact us
	Dimensions	110 x 86.5 mm (4.5" x 3.7")

HIGHLIGHTS

- Single Board Computer based on the ARM® Cortex™-A9 i.MX6 processor, a fully scalable solution from a high performance Quad Core CPU to an energy-efficient and cost-effective Solo Core solution
- Operating System: Android or Linux
- A flexible solution, with a configurable expansion connector



MAIN FIELDS OF APPLICATION



Point of Sales



Digital Signage - Infotainment



Industrial Internet of Things

This board is available in 3 configurations:

- **SECOSBC-A62-SOLO**
- **SECOSBC-A62-LITE**
- **SECOSBC-A62-QUAD**

Please visit www.seco.com for thermal dissipation information

(*) For additional configurability please contact us

* Please notice that some of these interfaces are factory options, other configurations are made via SW.

**Measured at any point of the heatspreader/heatsink during any and all times (including start-up). Actual temperature will widely depend on application, enclosure and/or environment. Upon customer to consider specific cooling solutions for the final system.