



## 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

	<b>Processor</b>	Freescale™ i.MX6 Family, based on ARM Cortex-A9 processors: <b>SECOSBC-A62-SOLO</b> : Single Core i.MX6S @1GHz <b>SECOSBC-A62-LITE</b> : Dual Core Lite (i.MX6DL) @1GHz <b>SECOSBC-A62-QUAD</b> : Quad Core (i.MX6Q) @1GHz
	<b>Max Cores</b>	4
	<b>Memory</b>	Soldered onboard DDR3L memory (*): <b>SECOSBC-A62-SOLO</b> : 512MB 32-bit interface <b>SECOSBC-A62-LITE</b> : 1GB 64-bit interface <b>SECOSBC-A62-QUAD</b> : 1GB 64-bit interface
	<b>Graphics</b>	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/xviD, H.263, H.264, DivX <b>SECOSBC-A62-QUAD</b> : OpenVG™ accelerator <b>SECOSBC-A62-SOLO</b> and <b>SECOSBC-A62-LITE</b> supports up to 2 independent displays <b>SECOSBC-A62-QUAD</b> supports up to 3 independent displays
	<b>Video Interfaces</b>	1 x Dual Channel or 2 x Single Channel 18/24 bit LVDS interface HDMI connector (*)
	<b>Video Resolution</b>	HDMI up to 1920 x 1080p LVDS up to 1920 x 1200
	<b>Mass Storage</b>	4GB eMMC disc soldered onboard (*); microSD Card slot <b>SECOSBC-A62-QUAD</b> : SATA connector
	<b>Networking</b>	Gigabit Ethernet connector Internal USB connector for Wi-Fi Module (*)
	<b>USB</b>	2 x USB 2.0 Type-A ports and 1 x USB 2.0 internal connector (*) USB micro-B Client port
	<b>Audio</b>	<b>SECOSBC-A62-LITE</b> and <b>SECOSBC-A62-QUAD</b> : AC'97 Audio Codec Realtek ALC655 with Mic-In, Line-Out audio Jacks (*)
	<b>Serial Ports</b>	Debug UART interface, TTL voltage level. <b>SECOSBC-A62-LITE</b> and <b>SECOSBC-A62-QUAD</b> : dedicated CAN Bus connector (Transceiver CAN 3.3V) Other serial interfaces on the expansion connector: <b>SECOSBC-A62-SOLO</b> : 1 x Serial (TTL level) - 2 x Serial (RS-232) - 2 x CAN (TTL level); <b>SECOSBC-A62-LITE</b> : 1 x Serial (TTL level) - 2 x Serial (RS-232) - 1 x CAN (TTL level); <b>SECOSBC-A62-QUAD</b> : 1 x Serial (RS-485) - 2 x Serial (RS-232) - 1 x CAN (TTL level)
	<b>Other Interfaces</b>	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
	<b>Power Supply</b>	+12VDC; Additional embedded Low Power RTC; <b>SECOSBC-A62-SOLO</b> and <b>SECOSBC-A62-LITE</b> : internal i.MX6 Real Time Clock (external battery required for time/date retention, not included) <b>SECOSBC-A62-QUAD</b> : low power Real Time Clock with onboard battery
	<b>Operating System</b>	<b>Free Android</b> and <b>Linux community BSP</b> available at UDOO.org <b>SECO Android</b> and <b>Linux BSP / WEC7</b> on request. Please contact us <b>Yocto Guideline</b> valid for SECO BSP
	<b>Operating Temperature**</b>	0°C ÷ +60 °C (commercial temp.) For industrial temp. (-40°C ÷ +85°C) please contact us
	<b>Dimensions</b>	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: Linux, Yocto, Android, WEC7
- 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](http://www.seco.com) for thermal dissipation information



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(\*) For additional configurability please contact us

\* Please note 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.