

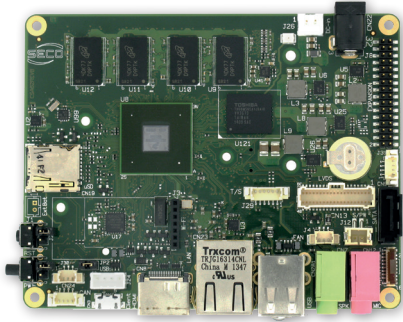
Single Board Computer



DORIS

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 28 GPIOs; CAN Bus



GRAPHICS
2D/3D dedicated graphics processors



MEMORY
Up to 2GB DDR3L on-board

Available in Industrial Temperature Range



MAIN FIELDS OF APPLICATION



Digital Signage - Infotainment



Point of Sales

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. Please contact us Yocto Guideline valid for SECO BSP Linux |
| 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 | | |
| 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 | | |

* 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.



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BLOCK DIAGRAM

