Fanless Embedded Computers

PICTOR

Fanless embedded computer based on Rockchip RK3399 Applications Processor

The right match between performance and power in a box PC

AI-ENABLED WITH CLEA

HIGHLIGHTS

- **CPU**: Rockchip RK3399
- **CONNECTIVITY**: 2x GbE; 2x USB3.0; 2x USB2.0; 2x RS-232 or RS-485; Optional on-board WiFi+BT; Optional on-board LTE modem
- **GRAPHICS**: 4-Core Mali-T860MP4 GPU
- **MEMORY**: Up to 4GB LPDDR4 on-board memory

Rockchip 瑞芯微电子

Linux android yocto PROJECT

MAIN FIELDS OF APPLICATION

Digital Signage - Infotainment | Fitness Equipment | HMI | Info Kiosks | Multimedia devices | Point of Sales | Vending

FEATURES

Processor	Rockchip RK3399 processor, 2x Cortex®-A72 MP cores + 4x Cortex®-A53 MPCores, up to 1.8GHz, 64-bit architecture
System Memory	64-bit soldered down LPDDR4 memory, up to 4GB
Graphics	4-Core Mali-T860MP4 GPU OpenGL ES 1.1/2.0/3.0/3.1, OpenVG 1.1, OpenCL, DX11 support Embedded VPU, able to offer: • H.265 10-bit, H.264 10-bit, VP9 8-bit 4Kx2K@60fps HW Decoding • MPEG-4/MPEG-2/VP8 1080p@60fps HW Decoding • H.264, VP8 1080p@30fps HW encoding
Video Interfaces	HDMI 1.4 / 2.0a connector DP interface on USB Type-C connector (Alternate mode)
Video Resolution	Up to 4K
Mass Storage	Optional eMMC 5.1 drive on-board, up to 64GB
Networking	2x Gigabit Ethernet RJ45 connectors Optional on-board WiFi (802.11 ac / a / b / g / n) +BT 5.0 module, external antennas* Optional on-board LTE modem with miniSIM slot or eSIM, external antennas* *Certification upon request
USB	2 x USB 2.0 on Dual Type-A socket 1 x USB 3.0 Type-C connector (alternate mode with DP) 1 x USB 3.0 Type-A connector
Serial Ports	2 x RS-232 or RS-485 ports (factory options) on DB9-M connectors
Audio	Lineout + MicIn combo TRRS Audio Jack
Other Interfaces	Optional 2x 12 poles terminal block connectors with the following I/O: • 2x CAN • 3x GPIOs • 1x Open Drain Output • 1x PWM • 1x I2C • 1x 5V • 1x 3.3V • 1x 12V • 3x GND Power ON Button with integrated LED miniSIM slot soldered on-board for the Modem Optional 4x SMA connectors for external WiFi / WWAN antennas
Other	Optional VESA 100 bracket accessory Optional DIN standard mounting plate accessory
Power Supply	$+12V_{DC}$ ÷ $+24V_{DC}$, DC Power Jack
Operating System	Linux Yocto Android (planned)
Operating Temperature*	0°C ÷ +50°C
Dimensions	181 x 109 x 75 mm

*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.

Information subject to change. Please visit www.seco.com to find the latest version of this datasheet

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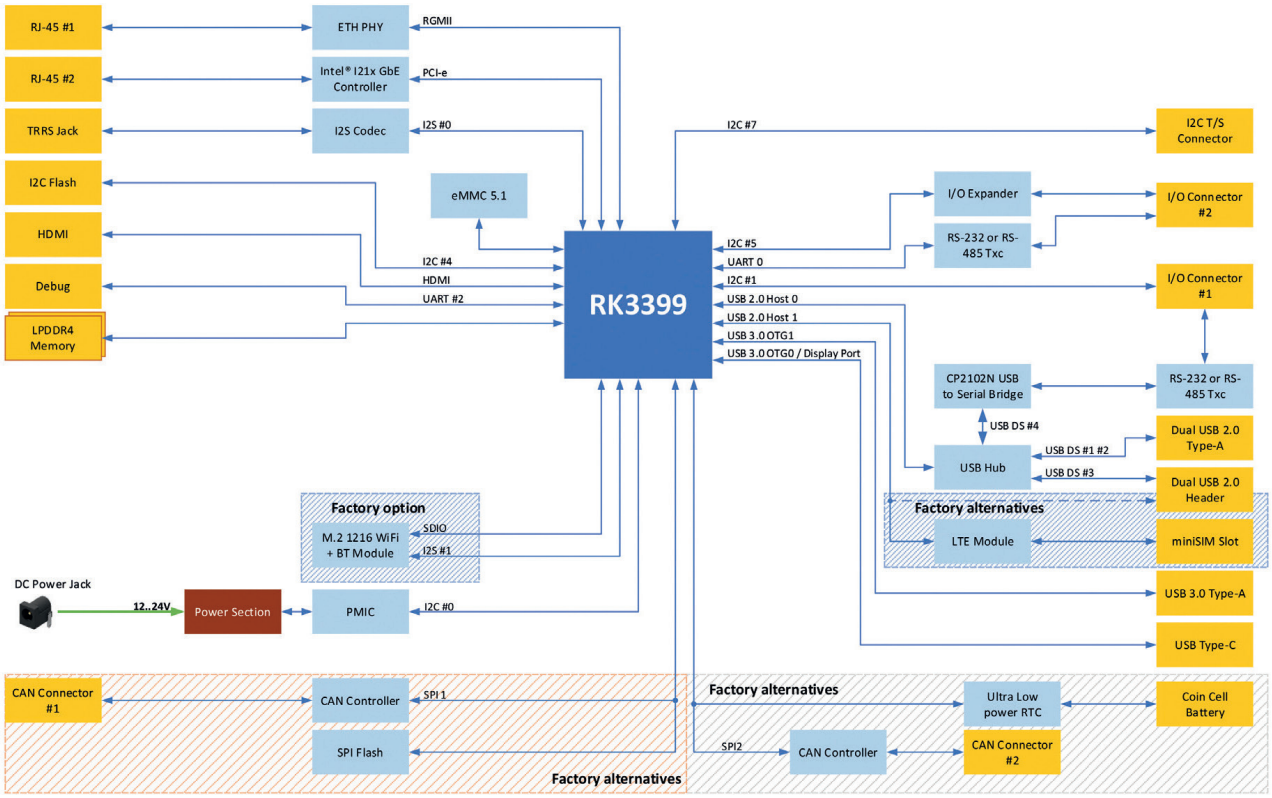
BLOCK DIAGRAM



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