FANLESS EMBEDDED COMPUTERS

Titan 220 RK3399

IP20 boxed PC based on Rockchip RK3399 Applications Processor

Enhanced graphics and computing performance for high-end industrial applications



HIGHLIGHTS

CPU
Rockchip RK3399

CONNECTIVITY
1x GbE; 2x USB3.0; 3x USB2.0; 2x RS-232; on-board WiFi+BT5.0; on-board LTE Cat4 modem

GRAPHICS
4-Core Mali-T860MP4 GPU

MEMORY
2GB LPDDR4 on-board memory

Rockchip 瑞芯微电子

Linux ANDROID

MAIN FIELDS OF APPLICATION

Medical | Industrial Automation | Smart Buildings & Smart Cities | Digital Signage

FEATURES

Processor	Rockchip RK3399 processor, 2x Cortex®-A72 MP cores + 4x Cortex®-A53 MP cores, up to 1.8GHz, 64-bit architecture
System Memory	64-bit soldered down LPDDR4 memory, 2GB
Graphics	4-Core Mali-T860MP4 GPU OpenGL ES 1.1/2.0/3.0/3.1, OpenVG 1.1, OpenCL, DX11 support Embedded VPU: · H.265 10-bit, H.264 10-bit, VP9 8-bit 4Kx2K@60fps hardware decoding · MPEG-4/MPEG-2/VP8 1080p@60fps hardware decoding · H.264, VP8 1080p@30fps hardware encoding · Supports 2 independent video outputs
Video Interfaces	HDMI® connector (HDMI 1.4 / 2.0a) DP interface on USB Type-C connector (Alternate mode)
Video Resolution	Up to 4K
Mass Storage	eMMC 5.1 drive on-board, 16GB
Networking	1x Gigabit Ethernet RJ45 connector on-board WiFi (802.11 ac / a / b / g / n) + BT 5.0 module, external antennas on-board LTE Cat4 modem with microSIM slot, external antennas
USB	3x USB 2.0 Type-A connectors 1x USB 3.0 Type-A connector 1x USB 3.0 Type-C connector (alternate mode with DP)

Serial Ports	2x RS-232 on DB9-M connectors
Other Interfaces	Secure Element microSIM slot soldered on-board for the cellular modem
Other	IP20 steel box enclosure Wall mounting brackets
Power Supply	12 V_{DC} to 24 V_{DC}, DC Power Jack
Operating System	Linux Android
Operating Temperature*	-20°C to +50°C
Dimensions	177 x 150 x 27 mm

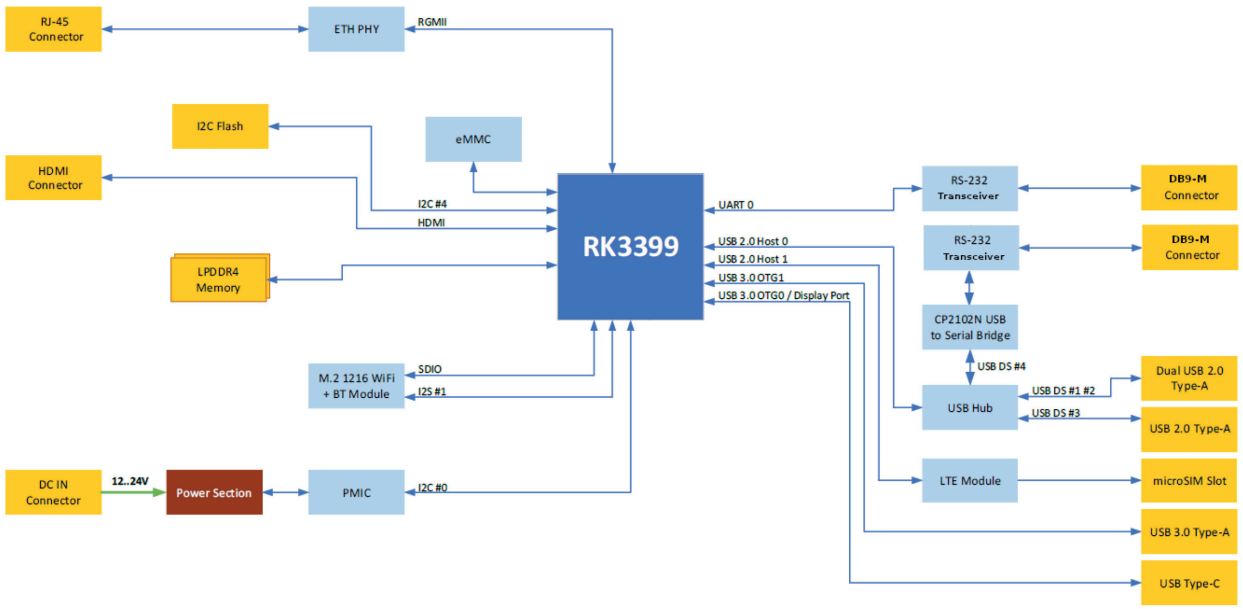
* Measured at any point on the heatspreader/heatsink during any and all times (including start-up). Actual temperature will depend on the application, enclosure and/or environment. The customer must consider specific cooling solutions for the final system to keep the heatspreader temperature in the range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

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

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BLOCK DIAGRAM



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Streamline and expedite your edge computing implementations

EDGEHOG OS

A flexible operating system that adapts to your needs, thanks to the customization tool and Docker support. Reliability and security are built-in through a dual-partition system and native integration with Exein's robust AI-based protection.

DEVICE MANAGER

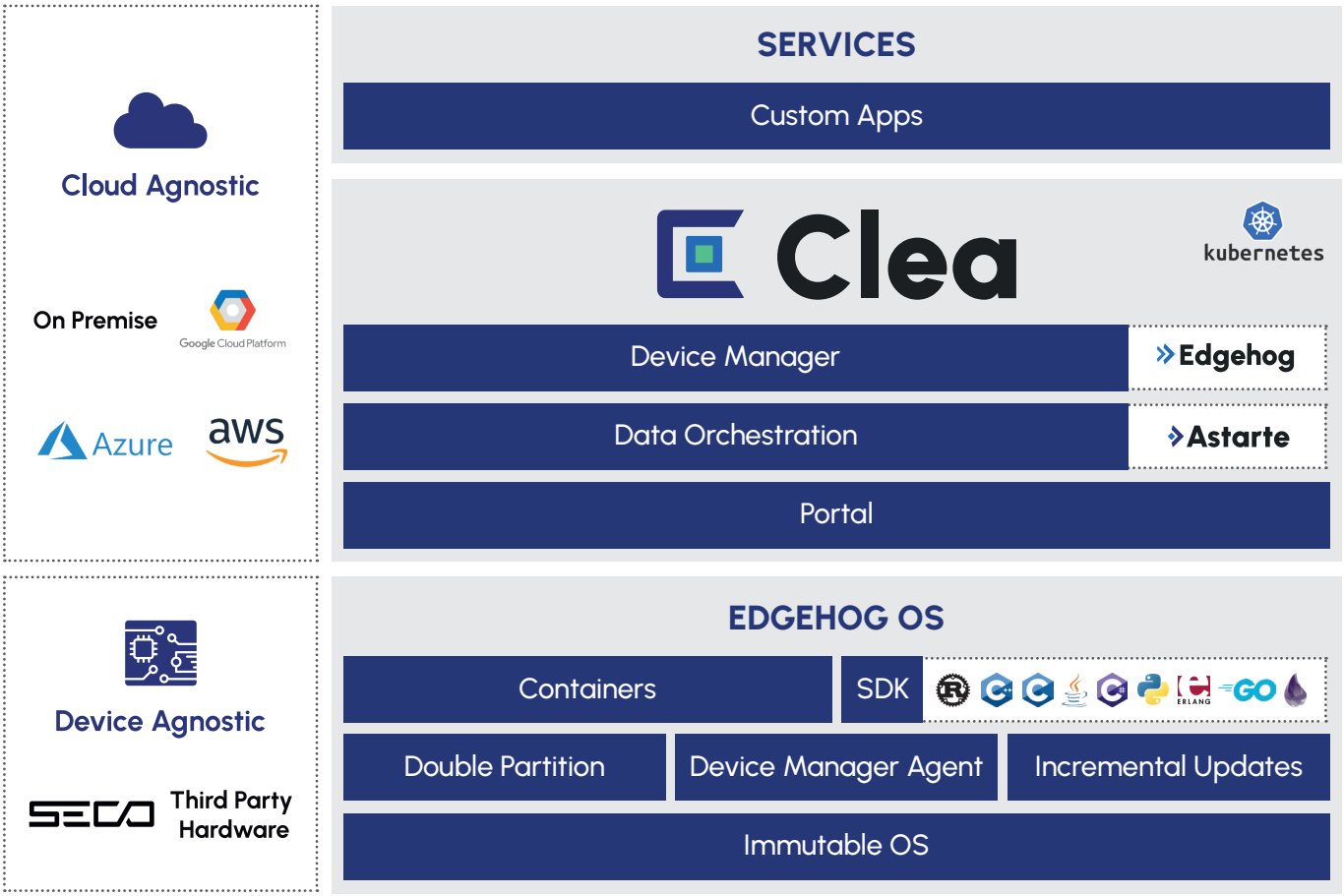
Update, configure, and manage remote devices. Optimize time and costs to maximize operational efficiency and security without the need for costly field interventions.

DATA ORCHESTRATION

Integrate third-party services, simplify data flows and analysis, and enhance business efficiency by enabling easy and fast utilization of AI.

PORTAL

Analyze data from remote devices, customize the user experience with applications tailored to user needs, and manage user rights, company access, and tenant privileges.



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EDGEHOG OS

CLEA DOCS

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