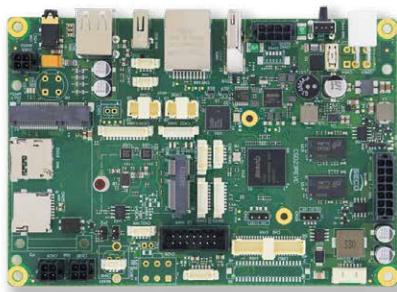




SBC-3.5-PX30

3.5" SBC with Rockchip PX30 SoC

High-performance Android and Linux application processor designed for digital multimedia applications



HIGHLIGHTS

	CPU Rockchip PX30 Processor
	GRAPHICS Mali-G31 GPU

	CONNECTIVITY 10/100 Ethernet; 4x USB 2.0 ports; M.2 Key E Slot for WiFi + BT modules; miniPCI-e slot for modems; up to 2x RS-232 + 1x RS-485 + 1x CAN + 4x UARTs
	MEMORY Soldered-down DDR3L memory, up to 4GB



MAIN FIELDS OF APPLICATION

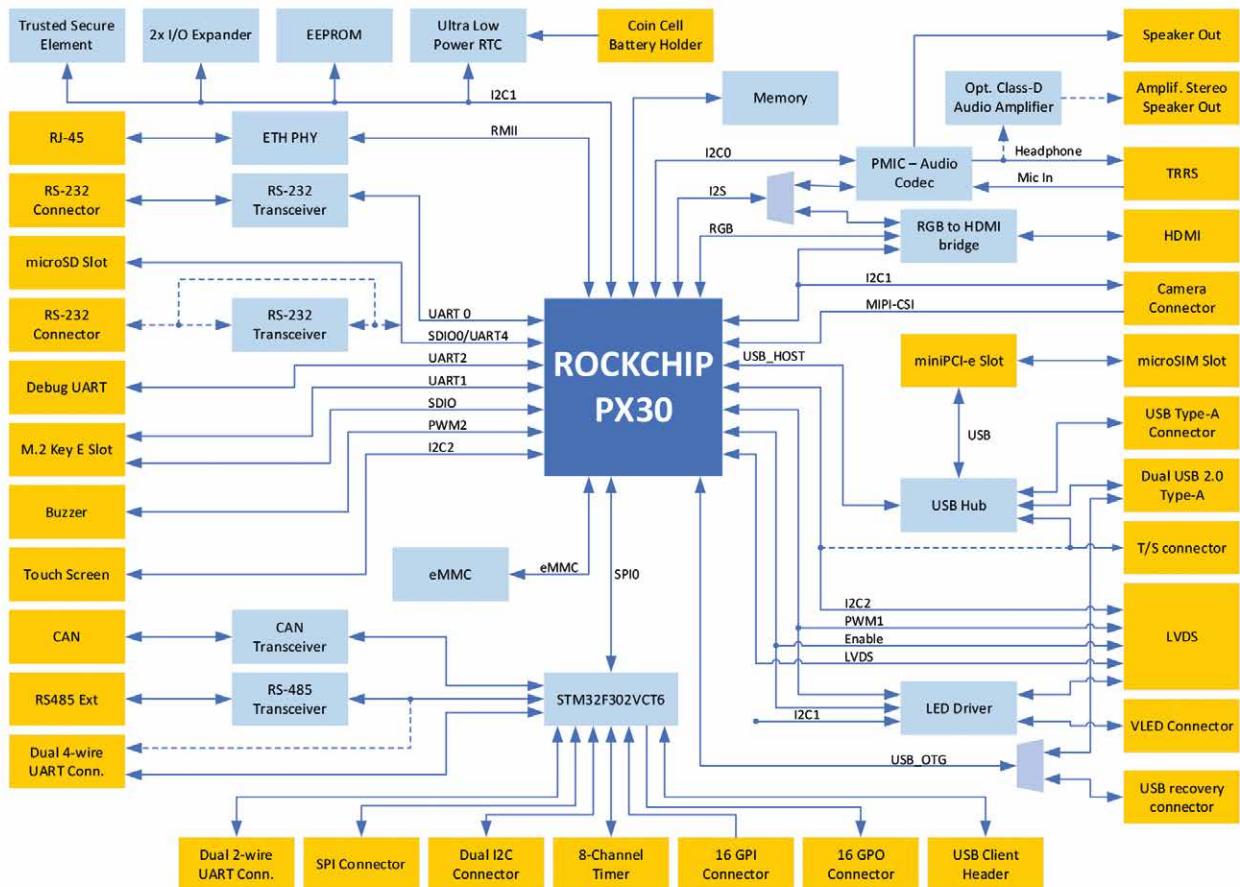


Smart Devices Digital Signage

FEATURES

	Processor Rockchip PX30 processor, 4x Cortex®-A35 cores		1x TTL or RS-232 port (factory alternative) 1x Debug UART
	Max Cores 4		1x TTL or RS-232 port (factory alternatives to microSD slot) 1x RS-485 port on internal connector 1x CAN port
	Memory Soldered-down DDR3L memory, up to 4GB total, 32-bit interface		miniSIM Slot for USB Modem modules on miniPCI-e form factor Optional CSI Camera connector Ultra-low Power RTC Trusted Secure Element 4-Channel LED Driver connector Microcontroller Programmable Interfaces: 2x 4-Wire UARTs on internal connector 2x 2-Wire UARTs on internal connector 1x SPI connector 2x I2C on internal connector 8-channel timer connector 16x GPIOs @3.3V (5V tolerant) 16x GPIOs @3.3V
	Graphics Mali-G31 GPU with High performance dedicated 2D processor OpenGL ES 1.1 / 2.0 / 3.2, Vulkan 1.0, OpenCL 2.0, DX11 FL9_3 Embedded VPU, able to offer: - Multi-format 1080p 60fps video decoders (H.265, H.264, VC-1, MPEG-4, VP8) - H.264 1080p@30fps HW encoding Supports 2 independent video outputs		+12V _{DC} ÷ +24 V _{DC} RTC battery
	Video Interfaces LVDS Single / Dual Channel interface HDMI® interface		Linux Yocto Android
	Video Resolution HDMI® Up to 1920x1080p LVDS Up to 1280x800		0°C ÷ +60°C (Commercial Temperature range) -20°C ÷ +85°C (Extended Temperature range)
	Mass Storage eMMC 5.1 Drive soldered on-board, up to 64GB Optional microSD Slot		146 x 102 mm (3.5" form factor)
	Networking 1x 10/100 Ethernet port Optional M.2 Socket 1 Key E Slot for WiFi/BT LE external modules Optional miniPCI-e slot (USB interface only) for external modem modules	*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.	
	USB 3x USB 2.0 Host ports on standard Type-A slots USB Recovery internal connector 2x USB 2.0 ports on internal pin headers		
	Audio PMIC embedded Audio Codec Stereo audio out on internal header TRRS combo jack for Headphone and Mic In Line Out audio jack or I2S Audio Class-D amplifier with stereo out available on internal connector (factory alternatives) Buzzer on-board		

BLOCK DIAGRAM



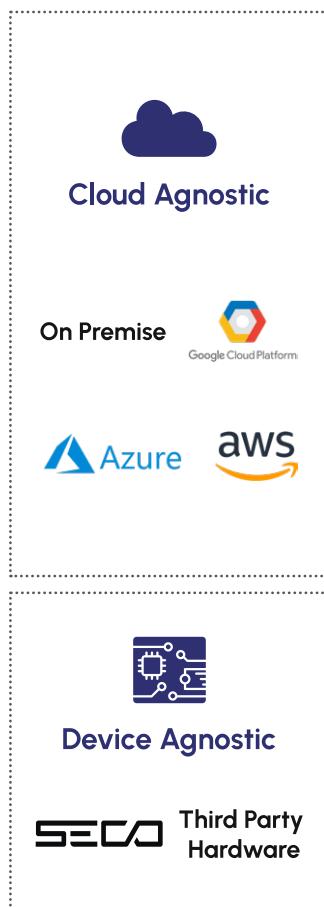
Streamline and expedite your edge computing implementations

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.

DATA ORCHESTRATION

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



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.

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.

SERVICES

Custom Apps



Device Manager

»Edgehog

Data Orchestration

»Astarte

Portal

EDGEHOG OS

Containers

SDK



Double Partition

Device Manager Agent

Incremental Updates

Immutable OS

Scan to know more about our solution

EDGEHOG OS



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