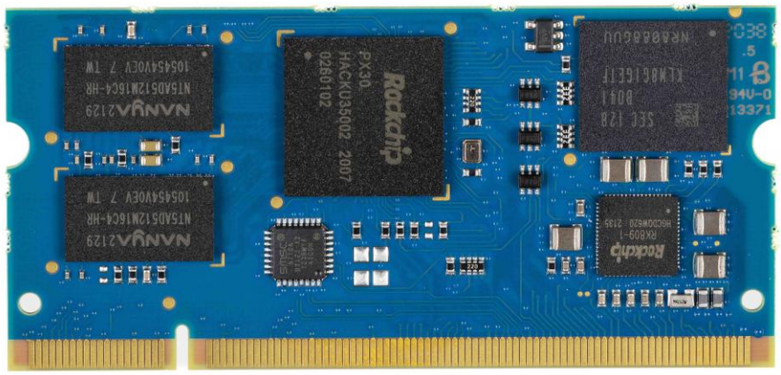
ENGICAM EMBEDDED SOLUTIONS

PX30.Core

EDIMM2.0

PX30.Core is based on Rockchip ® PX30 processor equipped with a quad-core A35. This module offers very high performance, real-time capabilities and more. The wide range of peripherals makes this SOM suitable for an extended set of applications.



HIGHLIGHTS

- Powerful Quad Core A35
- Low power consumption
- Suitable for fan-less applications with high-end graphics performance

APPLICATIONS

Industrial · Transportation · Home Automation · Surveillance · Transportation · Automotive · Robotics

FEATURES

yocto PROJECT

CPU	RockChip® PX30
CORES	Quad Core Arm® Cortex®-A35 @1.2 GHz
MEMORY	Up to 2 GB LDDR4 @1800 MT/s
AI & GRAPHICS	ARM Mali G31 GPU • OpenGL ES 1.1, 2.0 and 3.2 • OpenCL 2.0 • Vulkan® VX 1.0
VIDEO INTERFACES	• Parallel RGB up to 24 bit i/f • LVDS 18/24 bit i/f or alternative DSI 4-lane • MIPI-CSI 4-lane with 8Mp ISP
NETWORKING	1x 10/100 Ethernet interface
AUDIO	I²S interface
VIDEO PROCESSING	• 1080p@60fps H.264/AVC, H.265/HEVC, VP8, VC-1 MPEG-4, JPEG dec • 1x 1080@30fps or 2x 720@30fps 1 H.264, VP8 enc
USB	• 1x USB HOST 2.0 • 1x USB OTG 2.0
MASS STORAGE	Starting from 4GB eMMC drive soldered on-board
PERIPHERAL INTERFACES	UART, I²C, SPI, SDIO, GPIOs, Audio Codec on SOM
POWER SUPPLY	+5V DC
OPERATING SYSTEM	• Linux • Yocto
OPERATING TEMPERATURE*	Consumer qualified
DIMENSIONS	67,6 x 32 mm

* Valid for all components except CPU. Customer shall consider junction temperature for CPU. Temperature will widely depend on application. Specific cooling solutions could be necessary for the final system.

Rockchip

BLOCK DIAGRAM

