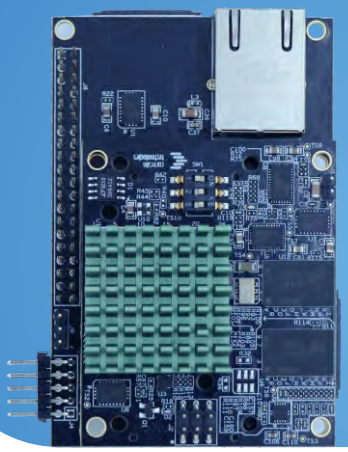
Rainman Accelerator



60x60 pixel

1080P

50 FPS

Rainman 3

Rainman 2

Rainman 1

Custom AI Streaming Architecture (CAISA)

Empowered by Custom AI Streaming Architecture (CAISA), the Corerain accelerator series, Rainman and Nebula, provide high-performance, low power consumption and low-latency AI solution to both IoT frontend and backend systems.

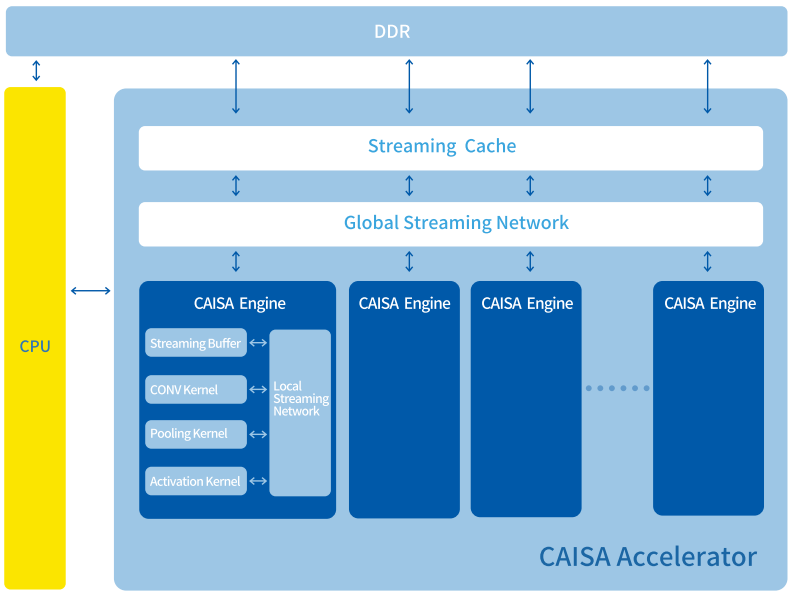
Frontend Object Detection and Tracking

1080p video streams

Full-scale real-time object detection

Minimum object size: 60x60

50 Frames Per Second (FPS) for AI processing



Corerain

Rainman Accelerator

General	Embedded System (Cortex-A9 dual-core, ARM Processor) Core board dimensions 50mm x 60mm 1GB DDR4 Memory 1Gb Flash onboard storage 5V USB Type-C power supply Power consumption 7.0W~8.5W
I/O	Multiple expansion boards design for users I/O: Ethernet, USB, SPI, GPIO, etc. FPGA program: 10-pin JTAG
Operating Environment	Operating temperature: 0°C~70°C Storage temperature: -10°C~80°C Working humidity: 5%~90% (no condensation)
Development Support	RainBuilder Toolchain TensorFlow, Caffe, etc.

Robot Drone Camera

Applications

Face

Face detection, tracking, human traffic counting
Face recognition
Attribute analysis: age, gender etc.

Vehicle

Vehicle detection, tracking, vehicle traffic counting
Vehicle attribute analysis: color, category,
license plate recognition etc.

Pedestrian

Pedestrian detection, tracking, pedestrian traffic counting
Attribute analysis: clothing color, age, gender etc.

Electric Power

Autonomous Driving

Smart Education, Smart Retail, Logistics

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