PLANET EMBEDDED

EMBEDDED COMPUTING CATALOGUE

Firefly

Stationpc

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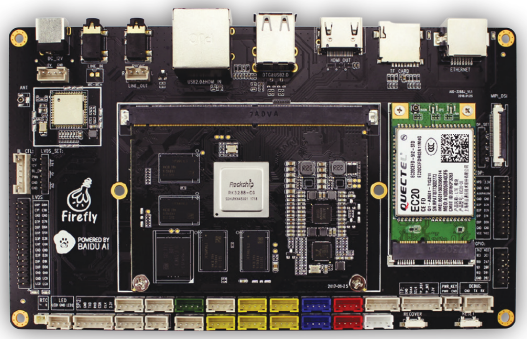
OFFICIAL DISTRIBUTOR FOR EU & UK

Firefly

Stationpc

Firefly

MAIN BOARDS

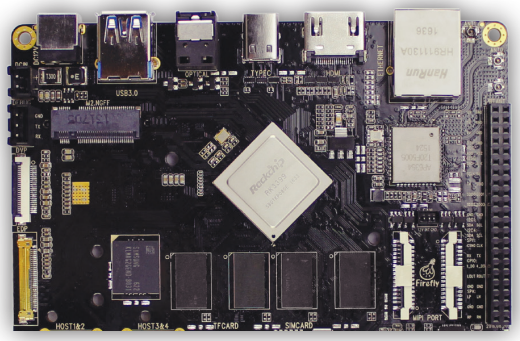


AIO-3288J

QUAD-CORE

HIGH-PERFORMANCE
ARM® CORTEX-A17

SOC	Rockchip RK3288
CPU	ARM® Cortex™-A17 Quad-Core up to 1.8GHz
GPU	ARM® Mali - T760 MP4 quad-core GPU OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11, AFBC Built-in high-performance 2D acceleration hardware
Storage	High-Speed eMMC 5.1 8GB / 16GB / 32GB / 128GB MicroSD (TF) Card Slot
RAM	1GB / 2GB / 4GB Dual-Channel DDR3 - 1333MHz

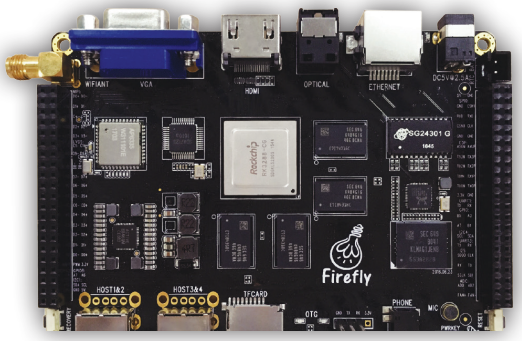


Firefly-RK3399

HEXA-CORE

HIGH-PERFORMANCE
OPEN SOURCE BOARD

SOC	Rockchip RK3399
CPU	Hexa-Core ARM® 64-bit processor, up to 2.0GHz,Based on Big.Little architecture, Dual-Core Cortex-A72 + Quad-Core Cortex-A53 with separate NEON co-processor
GPU	ARM Mali-T860 MP4 Quad-Core GPU OpenGL ES1.1/2.0/3.0/3.1, OpenCL and DirectX 11.1, Support AFBC
Storage	16GB / 32GB / 128GB High-Speed eMMC
RAM	2GB / 4GB Dual-Channel DDR3



Firefly-RK3288

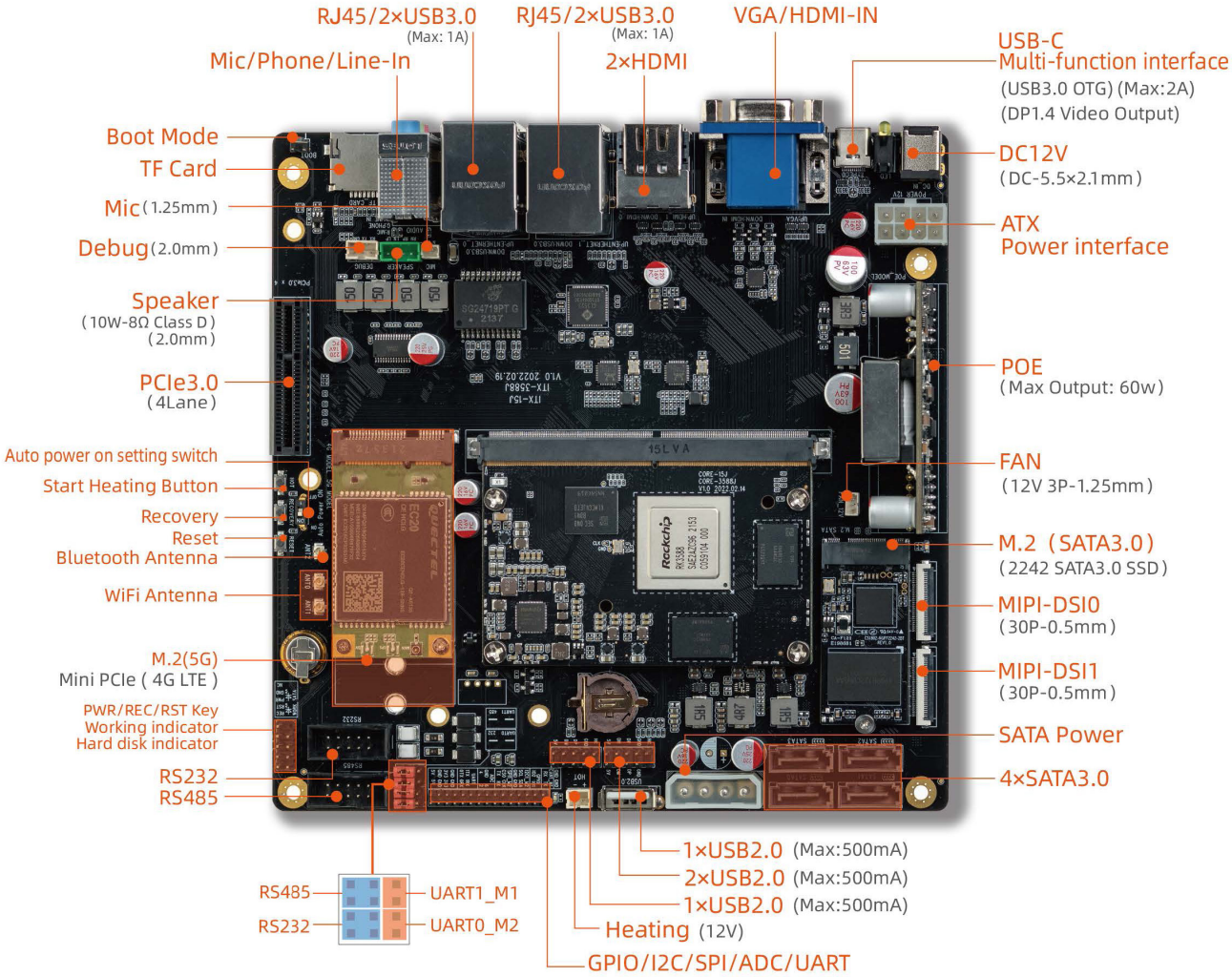
QUAD-CORE

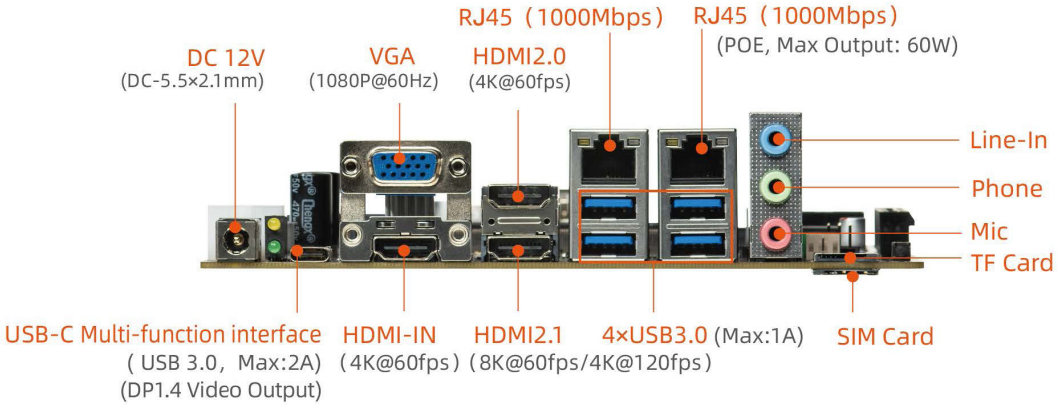
HIGH-PERFORMANCE
OPEN SOURCE BOARD

SOC	Rockchip RK3288 (28nm HKMG Process)
CPU	ARM® Cortex™ A17 Quad-Core up to 1.8GHz
GPU	ARM® Mali-T760 MP4 Support OpenGL ES1.1/2.0/3.0, OpenVG1.1, OpenCL, Directx11, Embedded high performance 2D hardware Supports H.264 10bit and H.265 4K videodecoding, 1080P multi format video decoding, 1080P video encoding, supports H.264, VP8 and MVC
Storage	16GB / 32GB eMMC, TF Card, SATA 2.0 (Only Firefly-RK3288 Reload)
RAM	2GB / 4GB Dual-Channel DDR3

NEW

ITX-3588J





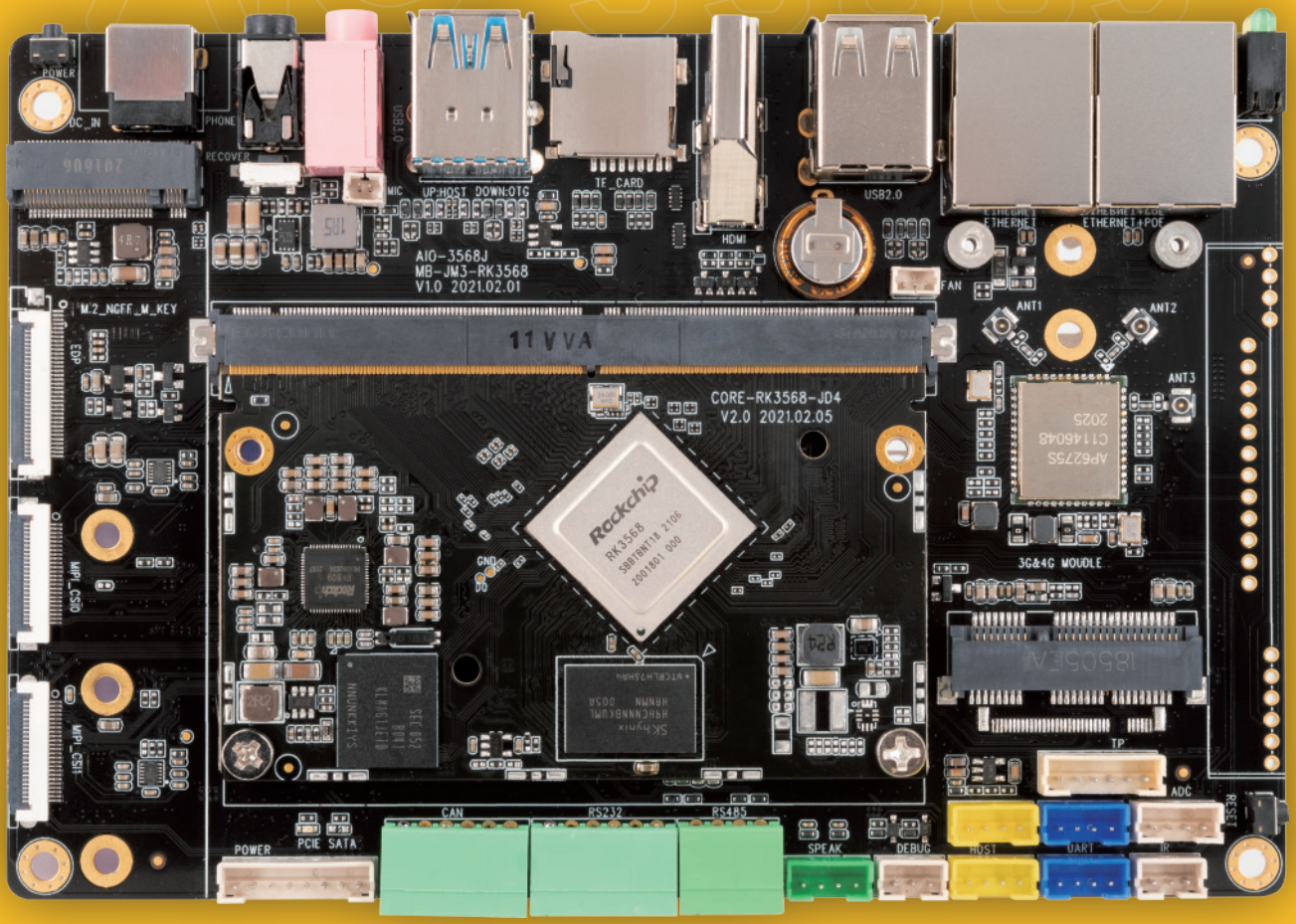
Firefly

ITX-3588J

OCTA-CORE 8K AI MINI-ITX

SOC	RockChip RK3588
CPU	8-core 64-bit (4x Cortex-A76 4x Cortex-A55) 8nm, up to 2.4GHz
GPU	ARM Mali-G610 MP4 quad-core GPU Supports OpenGL ES3.2 / OpenCL 2.2 / Vulkan1.1, 450 GFLOPS
NPU	Computing power up to 6 TOPS Supports INT4/INT8/INT16 mixed operation Supports framework switching (TensorFlow, MXNet, PyTorch, Caffe)
VPU	Video decoding: 8K@60fps H.265/VP9/AVS2 8K@30fps H.264 AVC/MVC 4K@60fps AV1 1080P@60fps MPEG-2/-1/VC-1/VP8 Video encoding: 8K@30fps, Supports H.265 / H.264 Up to 32-channel 1080P@30fps decoding and 16-channel 1080P@30fps encoding
ISP	Integrated 48MP ISP with HDR&3DNR
OS	Android: Android 12.0 Linux: Ubuntu Desktop, Ubuntu Server, Debian11, Buildroot, RTLinux, Kylin Linux, UOS. Supports UEFI Boot
Size	170 x 170mm (Mini-ITX)
Other	1×RS485, 1×RS232, 8×GPIO, 4×I2C, 1×SPI, 3×ADC, 1×Debug, 2×UART (either-or RS485, RS232), 1×Heating (12V), 1×Fan (12V/3P-1.25mm)
RAM	4GB/8GB/16GB 64bit LPDDR4/ LPDDR4x/LPDDR5 (Up to 32GB optional)
Storage	16GB/32GB/64GB/128GB eMMC
Storage Expansion	1× M.2 SATA3.0, can expand with 2242 SATA3.0 SSD, 4 × SATA3.0, can expand with 4 pcs of SATA3.0 SSD/HDD
Wireless	2.4GHz/5GHz dual-band WiFi6, Bluetooth 5.0, supports 5G/4G LTE expansion
Ethernet	2x GbE (RJ45) , one supports POE power supply, max output 60w
Video Output	1× HDMI2.1 (8K@60fps or 4K@120fps) 1 × HDMI2.0 (4K@60fps) 2 × MIPI-DSI (4K@60fps) 1 × DP1.4 (8K@30fps, USB3.0 multiplexed) 1 × VGA display output Multi-channel 8K video output, up to 4-screens with different displays
Audio	1 × Speaker output (10W-8Ω D class) 1 × Phone output 2 × HDMI audio output 1 × DP audio output 1 × Line-In input 1 × MIC input 1 × HDMI audio input
USB	4 × USB3.0 (Limit 1A) 1 × USB-C (USB3.0 / DP1.4) (Limit 2A) 4 × USB2.0 (3 of them are pins) (Limit 500mA)
PCIE	1 × PCIe3.0 (4Lane), expandable
SATA	1 × M.2 interface (SATA3.0) 4 × standard SATA3.0 interface

AIO-3568J



Firefly

AIO-3568J

QUAD-CORE

HIGH PERFORMANCE
MAIN BOARD

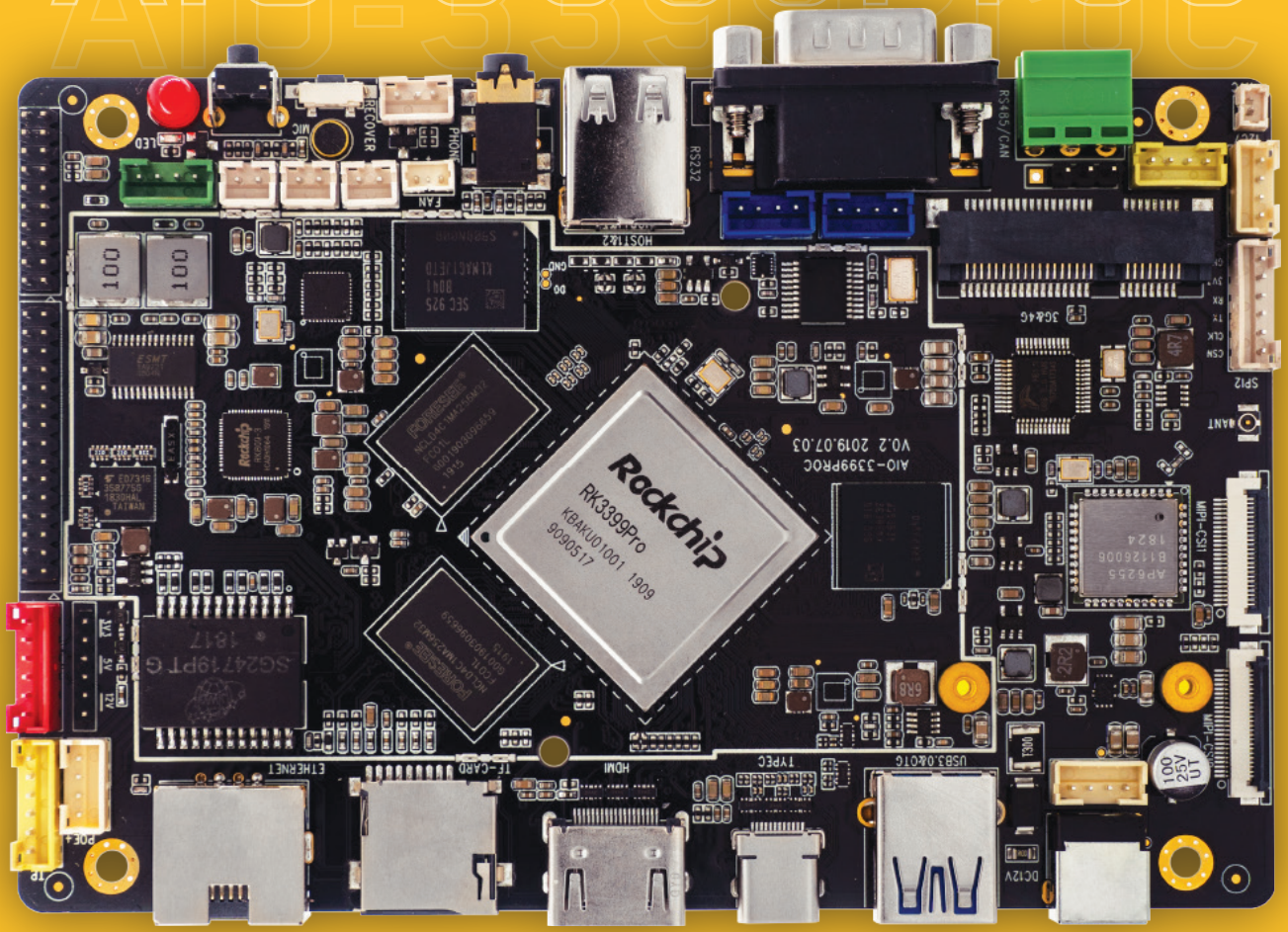
FIREFLY

INDUSTRY MAIN BOARD

- High Performance
- High Scalability
- Dual Gigabit Ethernet
- Supports Multiple OS

SOC	RockChip RK3568
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 2.0GHz
GPU	ARM G52 2EE OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	4K 60fps H.265/H.264/VP9 video decoding 1080P 100fps H.265/H.264 video encoding Supports 8M ISP Supports HDR
Storage	32GB / 64GB / 128GB eMMC, 1x M.2 PCIe 3.0, 1x SATA 3.0, 1x TF-Card Slot
RAM	2GB / 4GB / 8GB LPDDR4, 32Bit, frequency up to 1600MHz, supports all-data-link ECC
Interface	Support M.2 PCIe3.0 , SATA 3.0, IM.2 Expand with 5G, RS232, UART,Mic, IR, TP
OS	Supports Android 11.0, Ubuntu 18.04 OS

AIO-3399ProC



Firefly

AIO-3399ProC

HEXA-CORE

HIGH PERFORMANCE
MAIN BOARD

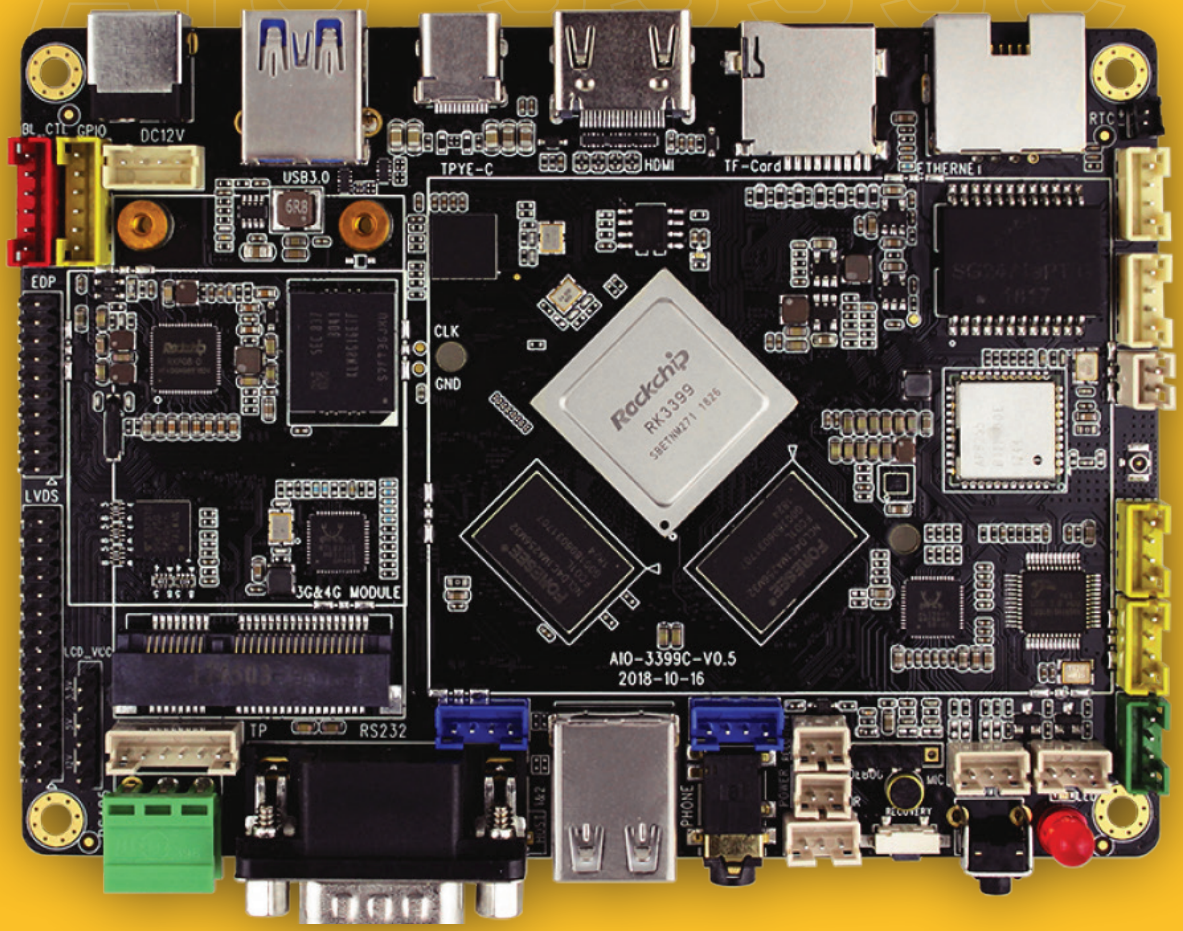
FIREFLY

INDUSTRY MAIN BOARD

- High Performance
- High Reliability
- Rich Interface
- Open Source

SOC	Rockchip RK3399Pro
CPU	Dual Cortex-A72+Quad Cortex-A53 CPU architecture, frequency up to 1.8GHz
GPU	ARM® Mali-T860 MP4 Quad-core GPU, OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11, Support AFBC (frame buffer compression)
NPU	Buit-in neural network processor NPU 8bit/16bit operation, computing performace up to 3.0TOPS. » NPU power consumption ~1% compared with traditional GPU. » Load Caffee/Mxnet/TensorFlow models directly. » AI development tools: Support model fast conversion, end-to-side API, TensorFLow/TF Lite/ Caffe/ONNX/Darknet models. » AI application development interface: Supports Android NN API,provide RKNN cross-platform API,Linux support for TensorFlow development. » Video Decoding: 4K VP9 and 4K 10bits H265/ H264, up to 60fps 1080P Multi-format video decoding (WMV, MPEG-1/2/4, VP8). » 1080P video encoding, supports H.264, VP8 formats. » Video post processor: deinterlacing, denoising, edge/detail/color optimization.
Storage	High-speed eMMC 5.1 (16GB / 32GB / 64GB / 128GB) Support TF card expansion
RAM	LPDDR3 3GB (NPU 1GB + CPU 2GB) LPDDR3 6GB (NPU 2GB + CPU 4GB)
OS	Android, Linux+QT, Ubuntu

AIO-3399C



Firefly

AIO-3399C

HEXA-CORE

HIGH PERFORMANCE
MAIN BOARD

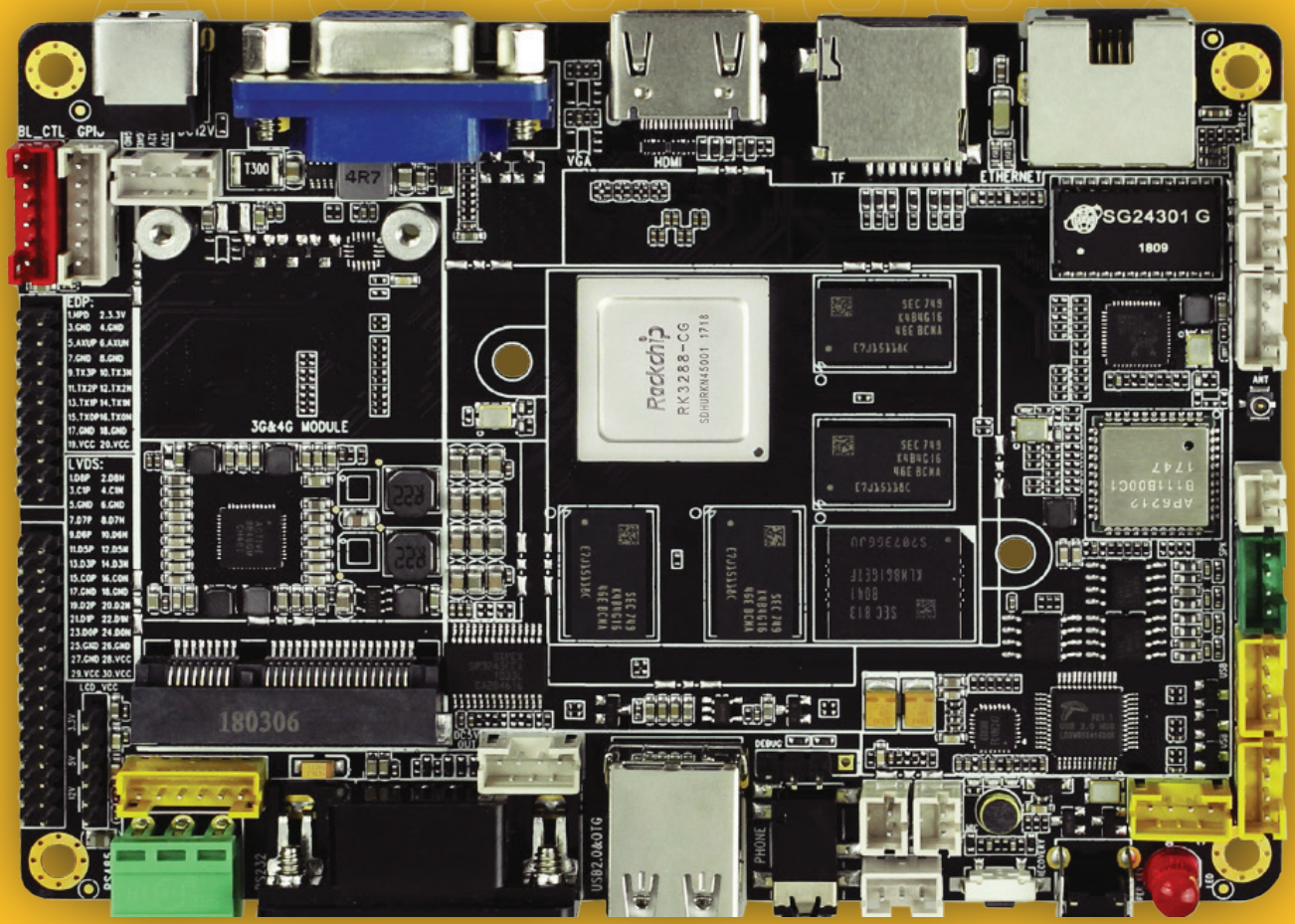
FIREFLY

INDUSTRY MAIN BOARD

- High Performance
- High Reliability
- Rich Interface
- Open Source

SOC	RockChip RK3399
CPU	Dual-core (Cortex-A72) + Quad-core (Cortex-A53) Frequency up to 2.0 GHz
GPU	Quad-core ARM Mali-T860 Support OpenGL ES 1.1/2.0 /3.0, OpenVG1.1, OpenCL, Directx11
DDR	2GB / 4GB Dual-Channel LPDDR4
NPU	(AIO-3399C AI Version) SPR2801S, Adopt MPE and APiM unique AI architecture with computing power 2.8Tops, 9.3Tops/W energy efficiency
Network	RJ45interface Gigabit Ethernet; On-board WIFI/BT module, support 2.4GHz / 5GHz dual-band WiFi, 802.11a/b/g/n/ac protocol; Bluetooth 4.1 (BLE); Mini PCIe
Audio	Headset, LINE-IN, LINE-OUT, Microphone
USB	Type-C(OTG), USB3.0, 4 x USB2.0 (2x Interface, 2x Socket)
OS	Supports Android 11.0, Ubuntu 18.04 OS
Framework	(AIO-3399C AI Version) Supports PyTorch, Caffe framework, follow-up support TensorFlow
Tools	(AIO-3399C AI Version) PLAI model training tool Support for GNet1, GNet18 and GNetfc network models which based on VGG
Size	126 × 91.3mm

AIO-3288C



Firefly

AIO-3288C

QUAD-CORE

HIGH PERFORMANCE
MAIN BOARD

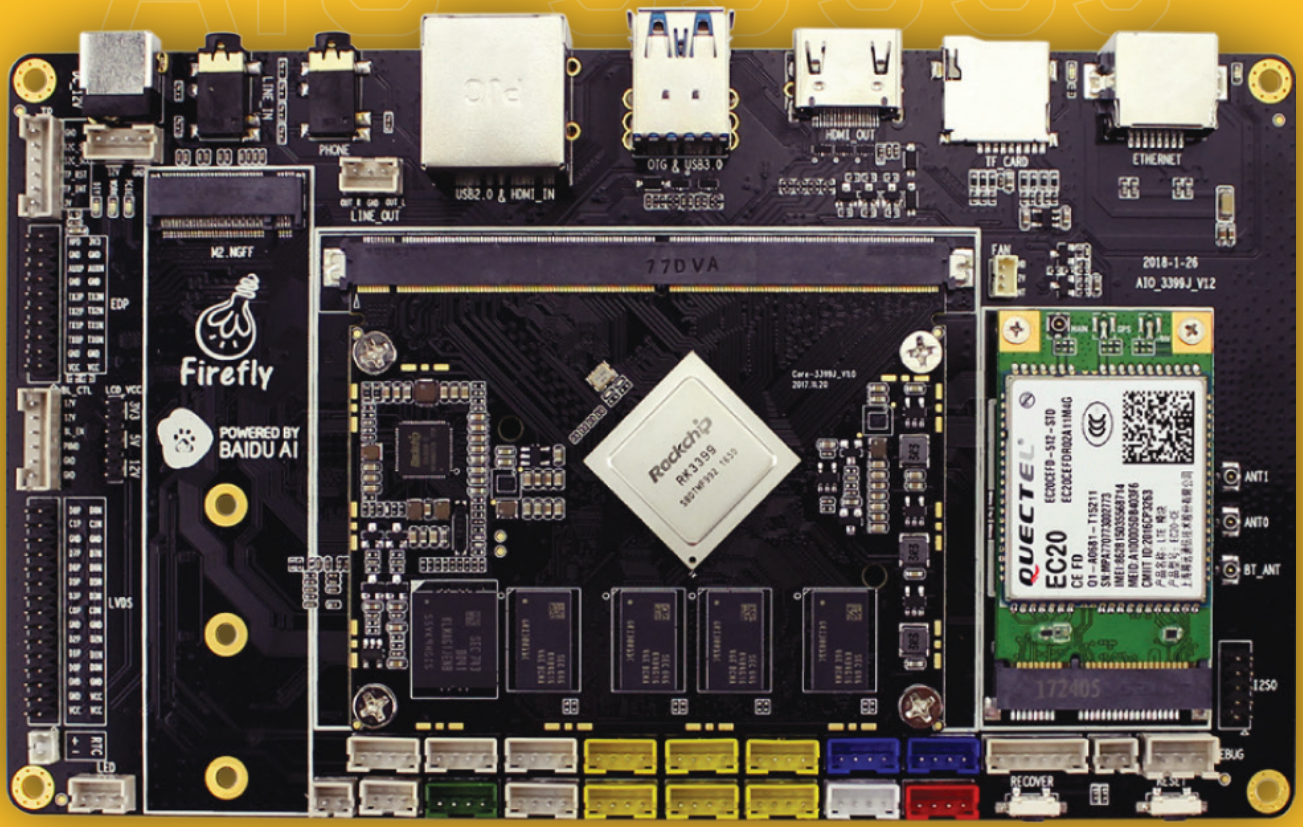
FIREFLY

INDUSTRY MAIN BOARD

- High Performance
- High Reliability
- Rich Interface
- Open Source

SOC	Rockchip RK3288
CPU	Quad-core Cortex-A17, frequencyup to 1.8GHz
GPU	Mali-T764 GPU, Support AFBC (Frame Buffer Compression). Support OpenGL ES 1.1/2.0/3.1, OpenCL, DirectX9.3. Embedded high-performance 2D acceleration hardware
Storage	8GB eMMC 5.1, Support MicroSD (TF) Card
RAM	2GB dual channel DDR3
Network	10/100/1000Mbps Gigabit Ethernet (RJ45) On-board WIFI/BT module, Single frequency WiFi 2.4GHz (802.11 b/g/n protocol)
Mobile	Support WCDMA,EVDO,4G universal version
Camera	2x MIPI-CSI Camera Port
Audio	HDMI, Headset, Dual channel speaker (8Ω/2W)
RTC	Built-in real-time clock (timer switch supported)
Multimedia	4K 10bits VP9/H265/H264 video decoding, up to 60fps.1080P multi-format video decoding. 1080p video encoding with H.264 and VP8 formats. Video post processor: deinterlacing, denoising, edge/detai/color optimization.
Display	Dual LVDS, eDP1.1, HDMI 2.0. VGA (extensible): Support 1080P@60Hz Output
Interface	GPIO, eDP, LVDS, USB, ADC, I2C, Key, Voltage In/Out
USB	USB OTG, USB HOST, 3x USB Socket
OS	Android, Linux
Size	126 mm× 91.3mm

AIO-3399J



Firefly

AIO-3399J

HEXA-CORE

64-BIT HIGH PERFORMANCE
MAIN BOARD

FIREFLY

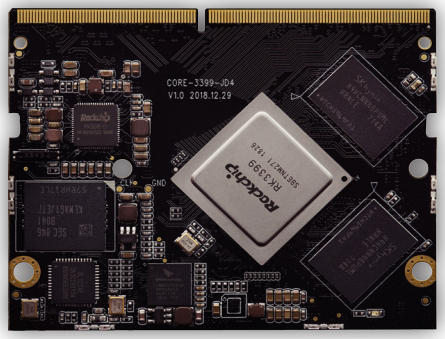
INDUSTRY MAIN BOARD

- High Performance
- High Reliability
- Rich Interface
- Open Source

SOC	Rockchip RK3399
CPU	Hexa-Core ARM 64-bit processor, up to 1.8GHz Based on Big.Little architecture, Dual-Core Cortex-A72 and Quad-Core Cortex-A53 with separate NEON co-processor
GPU	ARM Mali-T860 MP4 Quad-Core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenCL and DirectX 11,Support AFBC
VPU	4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P multi-format video decoding (MVC, mpeg-1/2/4, VP8) 1080P video encoding, h.264, VP8 format Video post-processor: anti-cross, de-noising, edge/detail/color optimization
PMU	RK808 Power management unit
Storage	High-Speed eMMC 5.1 (8GB / 16GB / 32GB / 128GB Optional), MicroSD (TF) Card Slot, PCIE M.2 NGFF, extend via NVMe SSD
RAM	Dual-Channel DDR3 - 1333MHz
Interface	Support M.2 PCIe3.0 , SATA 3.0, IM.2 Expand with 5G, RS232, UART, Mic, IR, TP
Ethernet	10/100/1000Mbps Ethernet (Realtek RTL8211E)
OS	Android, Ubuntu, u-boot

Firefly

CORE BOARD SERIES

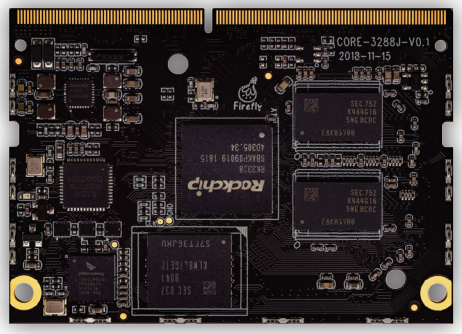


Core-3399-JD4

HEXA-CORE

ARM®
HIGH-PERFORMANCE CORE BOARD

SOC	Rockchip RK3399
CPU	ARM® Hexa-core 64-bit processor, frequency up to 1.8GHz ARM® big.LITTLE core architecture, Dual-core Cortex-A72 (big core) + Quad core Cortex-A53 (little core)
GPU	ARM® Mali-T860 MP4 Quad-core GPU, Support OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 AFBC (frame buffer compression)
Storage	8GB high-speed eMMC 5.1
RAM	2GB / 4GB LPDDR4

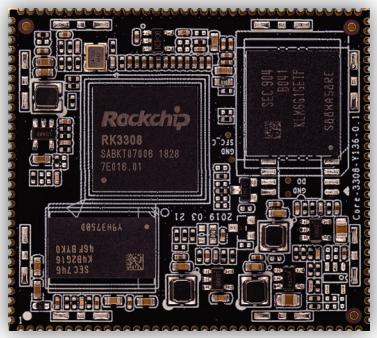


Core-3328-JD4

QUAD-CORE

ARM® CORTEX-A53
HIGH-PERFORMANCE CORE BOARD

SOC	Rockchip RK3328
CPU	Quad-core ARM® Cortex-A53 64-bit processor, frequency up to 1.5GHz
GPU	ARM Mali-450 MP2 GPU Support OpenGL ES1.1/2.0, OpenVG1.1
NPU	AI architecture, computing power 2.8Tops, 9.3Tops/W energy efficiency
Storage	8GB / 16GB / 32GB / 64GB / 128GB High-Speed eMMC5.1 MicroSD (TF) Card Slot
RAM	1GB / 2GB / 4GB DDR4



Core-3308Y

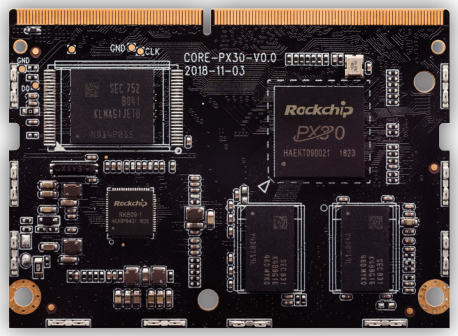
QUAD-CORE

IoT 64-BIT
CORE BOARD

SOC	Rockchip RK3308
CPU	Quad-core 64-bit ARM Cortex-A35, frequency up to 1.3GHz
RAM	256M DDR3 (128MB ~ 512MB)
Storage	4GB / 8GB / 16GB / 32GB / 64GB / 128GB eMMC 128MB / 256 NAND Flash 16MB - 512MB SPI Flash MicroSD (TF) Card Slot

Firefly

CORE BOARD SERIES

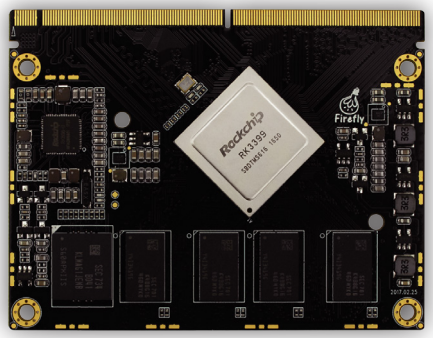


Core-PX30-JD4

QUAD-CORE

ARM® CORTEX-A35
HIGH-PERFORMANCE CORE BOARD

SOC	Rockchip PX30
CPU	Quad-Core ARM® Cortex-A35 processor
GPU	Mali-G31GPU, Support OpenGL ES3.2, Vulkan 1.0, OpenCL 2.0 Built-in embedded high-performance 2D acceleration hardware
Storage	8GB / 16GB / 32GB / 64GB / 128GB eMMC 5.1 MLC NAND Support
RAM	1GB / 2GB DDR3

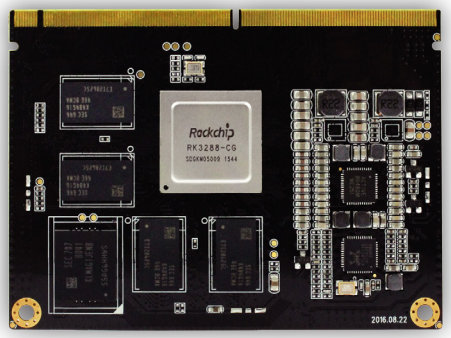


Core-3399J

HEXA-CORE

ARM® CORTEX-A72
HIGH-PERFORMANCE CORE BOARD

SOC	Rockchip RK3399
CPU	Hexa-Core ARM 64-bit processor, up to 2.0GHz Based on Big.Little architecture, Dual-Core Cortex-A72 and Quad-Core Cortex-A53
GPU	ARM Mali-T860 MP4 Quad-Core GPU Support OpenGL ES1.1/2.0/3.0/3.1, OpenCL and DirectX 11, AFBC support
Storage	8GB / 16GB / 32GB / 128GB High-Speed eMMC 5.1
RAM	1GB / 2GB / 4GB Dual-Channel DDR3 - 1333MHz



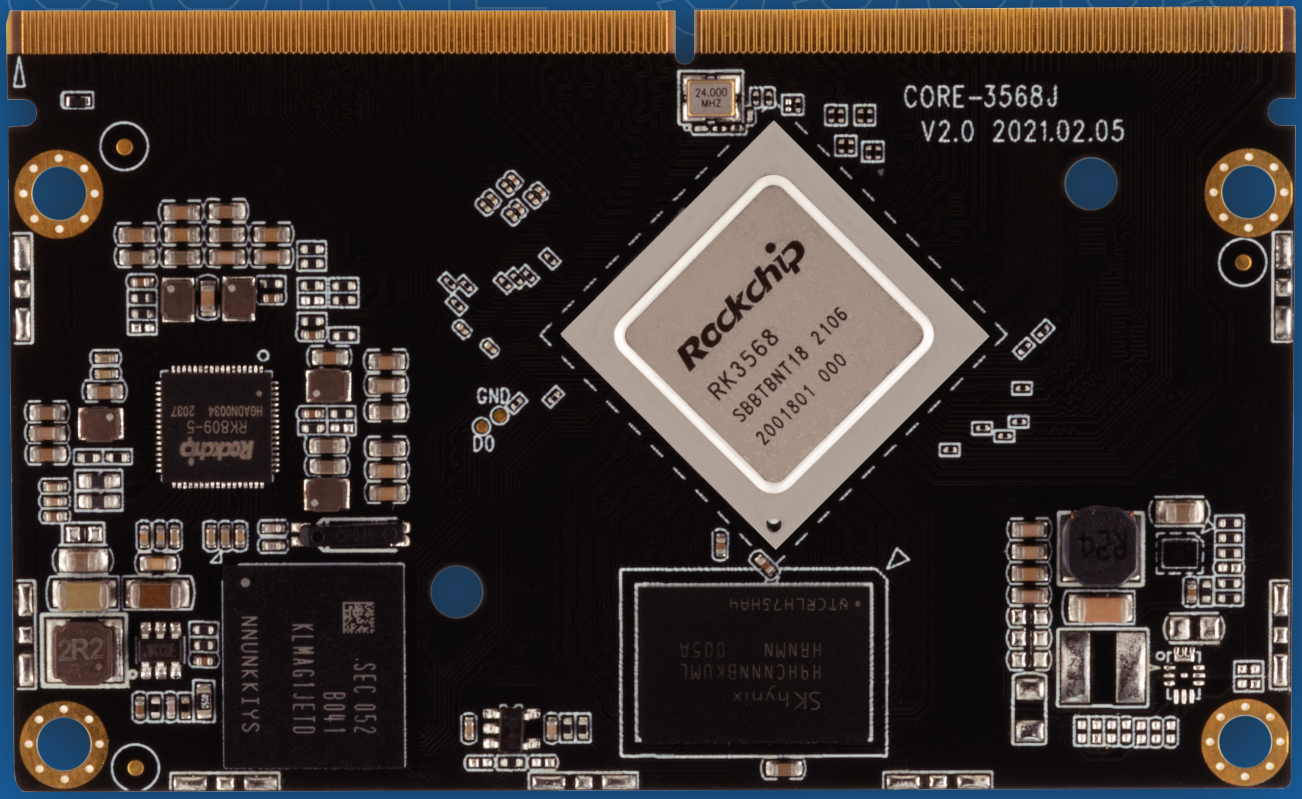
Core-3288J

QUAD-CORE

ARM® CORTEX-A17
HIGH-PERFORMANCE CORE BOARD

SOC	Rockchip RK3288
CPU	ARM® Cortex™-A17 Quad-Core up to 1.8GHz
GPU	Mali - T760 MP4 quad-core GPU, AFBC OpenGL ES1.1/2.0/3.0/3.1 OpenVG1.1, OpenCL, DX11
RAM	1GB / 2GB / 4GB Dual-Channel DDR3 - 1333MHz
Storage	8GB / 16GB / 32GB / 128GB High-Speed eMMC 5.1

CORE-3568J



Firefly

Core-3568J

QUAD-CORE

64-BIT CORTEX
A55 AI CORE BOARD

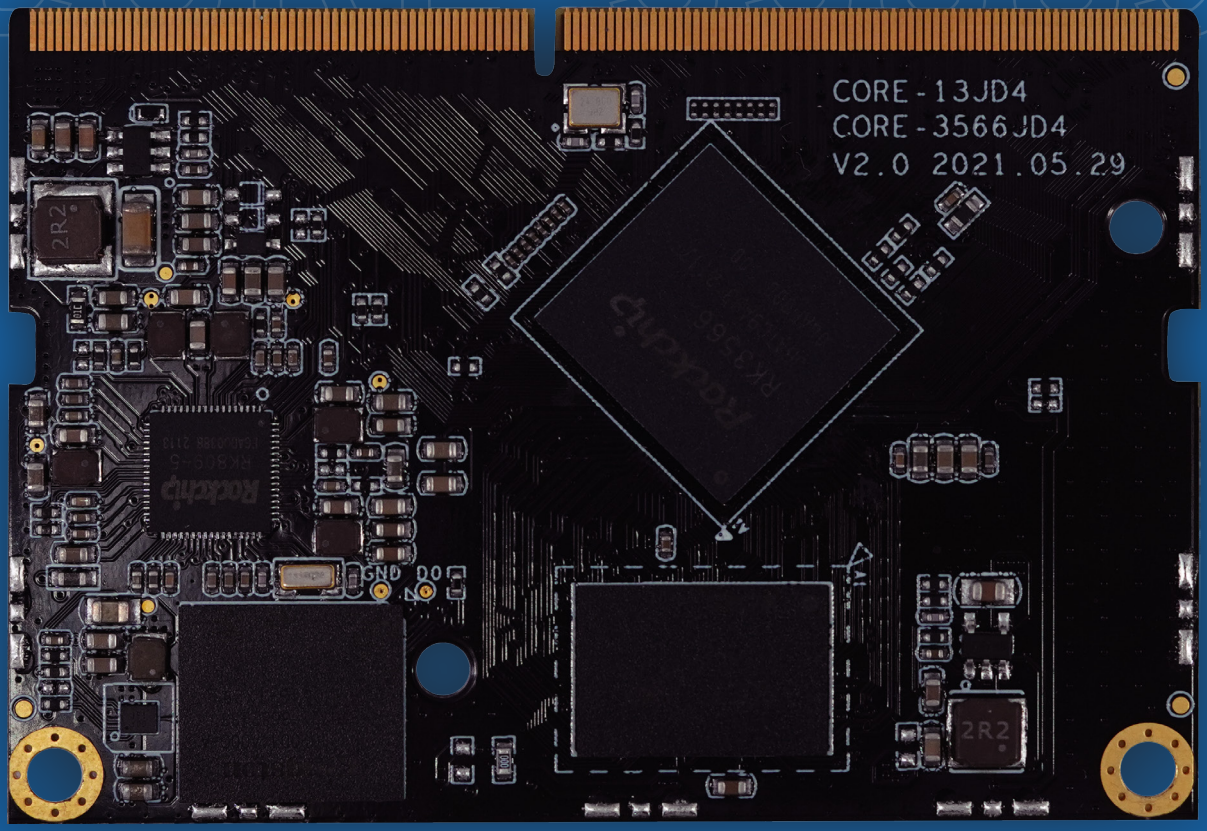
FIREFLY

CORE BOARD SERIES

- High Performance
- High Scalability
- Dual Gigabit Ethernet
- Supports Multiple OS

SOC	RockChip RK3568
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 2.0GHz
GPU	ARM G52 2EE, Supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 High-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	Supports 4K 60fps H.265/H.264/VP9 video decoding Supports 1080P 100fps H.265/H.264 video encoding Supports 8M ISP, supports HDR
Storage	32GB / 64GB / 128GB eMMC 1x M.2 PCIe 3.0 (2242/2280 NVMe SSD) 2x SATA 3.0 x 1 (2.5” SSD/HDD) 1x TF-Card Slot (with TF card)
RAM	2GB / 4GB / 8GB LPDDR4, 32Bit, frequency up to 1600MHz supports all-data-link ECC
OS	Supports Android 11.0, Ubuntu 18.04 OS
Ethernet	Supports dual Gigabit Ethernet ports (1000 Mbps) LAN (PoE) port supports POE+ (802.3 AT, output power 30W) power supply
Size	82.0 mm × 53.5mm
Type	Gold finger (SODIMM 314P, 0.5mm pitch), Immersion gold technology

CORE-3566J



Firefly

Core-3566J

QUAD-CORE

64-BIT HIGH-PERFORMANCE
CORE BOARD

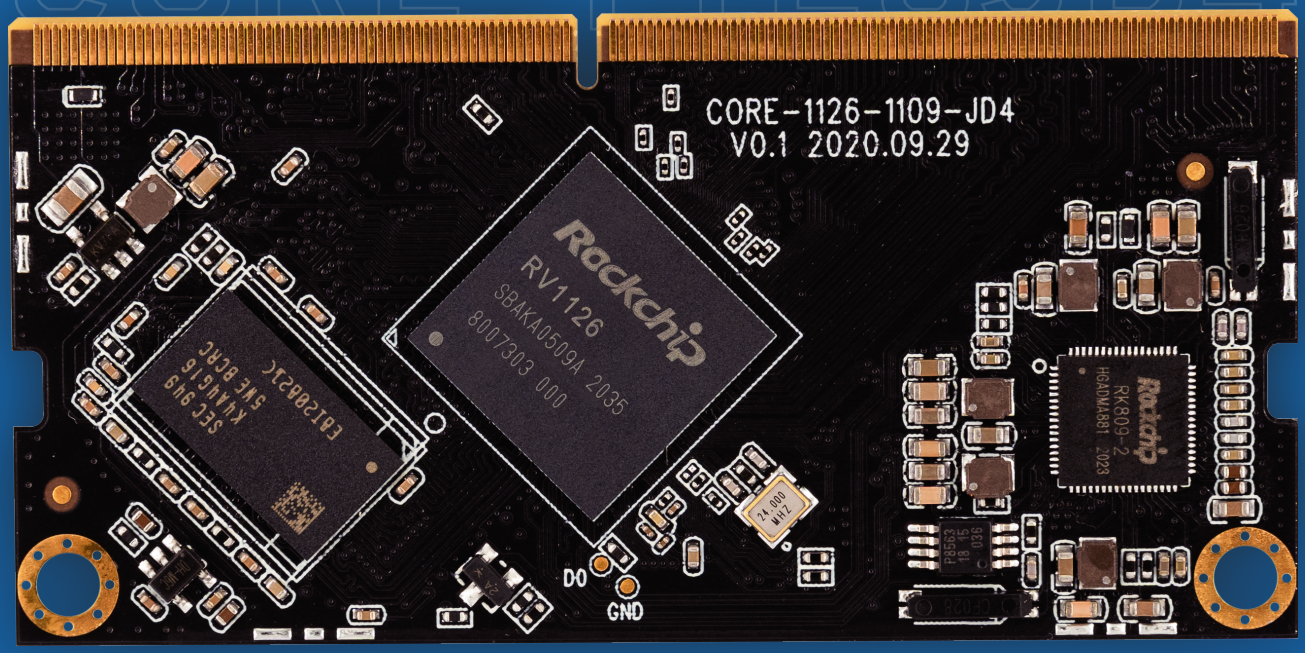
FIREFLY

CORE BOARD SERIES

- High Performance
- High Scalability
- Dual Gigabit Ethernet
- Supports Multiple OS

SOC	RockChip RK3566
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 1.8GHz
GPU	ARM G52 2EE Supports OpenGL ES 1.1/2.0/3.2. OpenCL 2.0. Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	4K 60fps H.265/H.264/VP9 video decoding 1080P 100fps H.265/H.264 video encoding Supports 8M ISP, HDR
Storage	32GB / 64GB / 128GB eMMC
RAM	2GB / 4GB / 8GB LPDDR4
OS	Android, Ubuntu 18.04
Ethernet	Integrated GMAC Ethernet controller 10/100/1000Mbps Ethernet (RJ45)
Size	69.6 × 48mm
Type	Gold finger (SODIMM 260P, 0.5mm pitch)

CORE-1126JD4



Firefly

Core-1126JD4

AI VISION

HIGH-PERFORMANCE
CORE BOARD

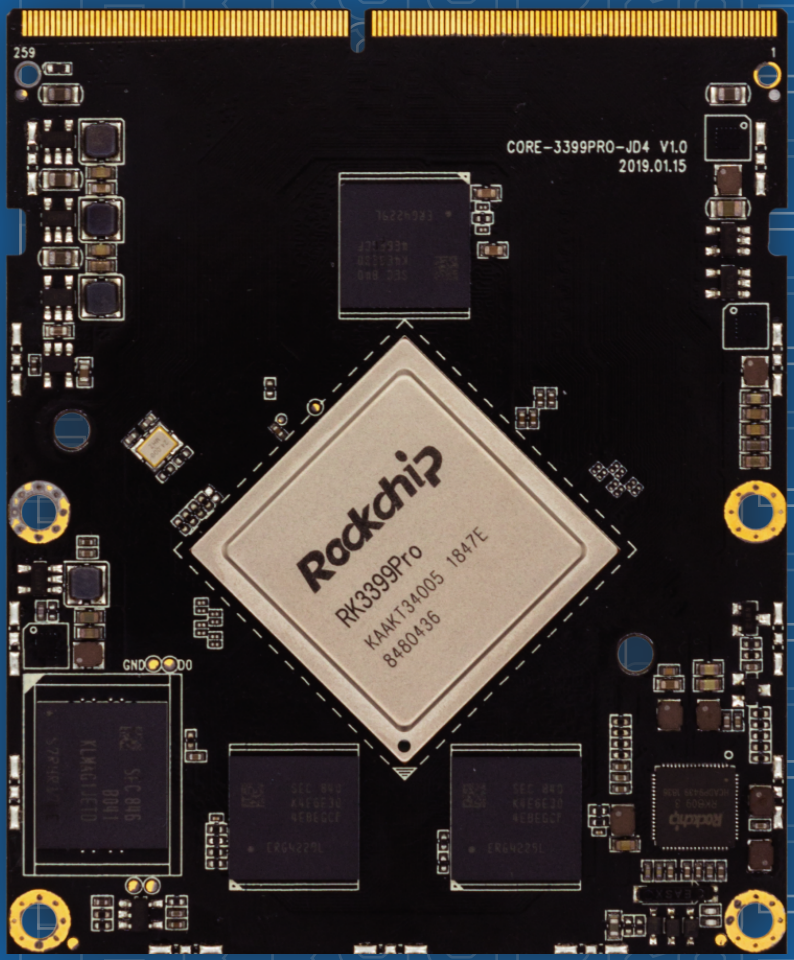
FIREFLY

CORE BOARD SERIES

- High Performance
- High Reliability
- High Scalability
- Supports Multiple OS

SOC	RV1126
CPU	Quad-core ARM Cortex-A7 32-bit, with NEON and FPU Per core: 32KB I-cache, 32KB D-cache and 512KB shared second-level cache. Based on RISC-V MCU
NPU	2.0Tops, supports INT8/INT16 Supports Tensor Flow/MXNet/PyTorch/Caffe
Storage	8GB / 16GB eMMC
RAM	1GB / 2GB DDR4
Video Encoding	4K H.264/H.265 30fps video encoding, 3840 x 2160@30 fps+720p@30 fps encoding
Display	MIPI-DSI interface, 1080P @ 60 FPS
Ethernet	10/100/1000Mbps, with TSO (TCP Segmentation Offload) network acceleration
WiFi	Via SDIO 3.0 interface
OS	Linux
Size	69.9 × 33.96mm
Type	Gold finger (SODIMM 260P, 0.5mm pitch)

CORE-3399Pro-JD4



Firefly

Core-3399 Pro-JD4

HEXA-CORE

HIGH PERFORMANCE
AI CORE BOARD

FIREFLY

CORE BOARD SERIES

- High Performance
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- High Scalability
- Supports Multiple OS

SOC	Rockchip RK3399Pro
CPU	Dual-core Cortex-A72+ Quad-core Cortex-A53 ARM big.LITTLE architecture, frequency up to 1.8GHz
NPU	NPU Support 8bit/16bit operation Supports TensorFlow, Caffe models
GPU	ARM® Mali-T860 MP4 Quad-core GPU, OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 Supports AFBC (frame buffer compression)
VPU	4K VP9 and 4K 10bits H265/H264 video decoding, up to 60fps 1080P multi-format video decoding (WMV, MPEG-1/2/4, VP8) 1080P video coding, support H.264, VP8 format Video post processor, de-interlacing, de-noising, edge/detail/color optimization
Storage	8GB / 16GB / 32GB / 64GB / 128GB High-speed eMMC 5.1
RAM	3GB / 6GB LPDDR3
Ethernet	10/100/1000Mbps Ethernet (RJ45)
Camera	2x MIPI-CSI camera interface
OS	Android, Linux
Size	69.6 × 85 mm
Type	Gold finger (SODIMM 260P, 0.5mm pitch)

Firefly

INDUSTRIAL COMPUTERS

iHC-3308GW

QUAD-CORE

ARM® CORTEX-A35
INDUSTRIAL 4G SMART GATEWAY

SOC	Rockchip RK3308B
CPU	Quad-core 64-bit ARM Cortex-A35, frequency 1.3GHz
Storage	4GB eMMC (4GB / 8GB / 16GB / 32GB / 64GB / 128GB Supported) 16MB ~512 MB SPI Flash MicroSD (TF) Card Slot
RAM	256M DDR3 (128MB ~ 512MB optional)

EC-A3399ProC

HEXA-CORE

64-BIT
AI EMBEDDED COMPUTER

SOC	Rockchip RK3399Pro
CPU	ARM® big.LITTLE CPU architecture Dual-core Cortex-A72 + Quad-core Cortex-A53, frequency up to 1.8GHz
GPU	ARM® Mali-T860 MP4 Quad-core GPU Supports OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11 AFBC (frame buffer compression)
Storage	High-speed eMMC 5.1 (16GB / 32GB / 64GB / 128GB) TF Card Slot

EC-A3399C

HEXA-CORE

MINI EMBEDDED COMPUTER

SOC	Rockchip RK3399
CPU	Dual-core Cortex-A72 + Quad-core Cortex-A53, frequency up to 1.8 GHz
GPU	Quad-core ARM Mali-T860 Support OpenGL ES 1.1/2.0/3.0, OpenVG1.1, OpenCL, Directx11
Storage	High-Speed eMMC TF Card Slot
RAM	2GB / 4GB LPDDR4

Firefly

INDUSTRIAL COMPUTERS

EC-R3328PC

QUAD-CORE

64-BIT
MINI EMBEDDED COMPUTER

SOC	Rockchip RK3328
CPU	Quad-core ARM® Cortex-A53 64-bit processor, frequency up to 1.5GHz
GPU	ARM Mali-450 MP2 GPU, Support OpenGL ES1.1/2.0, OpenVG1.1
Storage	8GB High-speed eMMC5.1 (8GB / 16GB / 32GB / 64GB / 128GB Option) MicroSD (TF) Card Slot
RAM	2GB DDR3 (1GB / 2GB / 4GB Option)

EC-A3288C

QUAD-CORE

MINI EMBEDDED COMPUTER

SOC	Rockchip RK3288
CPU	Quad-core Cortex-A17 Frequency up to 1.8GHz
GPU	Mali-T764 GPU,Support AFBC, OpenGL ES 1.1/2.0/3.1, OpenCL, DirectX9.3 Embedded high-performance 2D acceleration hardware
Storage	8GB eMMC 5.1, MicroSD (TF) Card Slot
RAM	2GB dual channel DDR3

EC-R3308CC

QUAD-CORE

MINI INDUSTRIAL PC

SOC	Rockchip RK3308B
CPU	Quad-core 64-bit ARM Cortex-A35, frequency up to 1.3GHz
RAM	512M DDR3 (128MB ~ 512MB)
Storage	4GB eMMC (4GB / 8GB / 16GB / 32GB / 64GB / 128GG) MicroSD Card Slot expansion supported
Ethernet	Dual RJ45 Ethernet ports (100Mbps)

EC-A3568J

Firefly

EC-A3568J

QUAD-CORE

64-BIT
AI EMBEDDED COMPUTER

FIREFLY

INDUSTRIAL COMPUTERS

- High Performance
- High Reliability
- High Scalability
- Supports Multiple OS

SOC	RockChip RK3568
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 2.0GHz
GPU	ARM G52 2EE Supports OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	4K 60fps H.265/H.264/VP9 video decoding 1080P 100fps H.265/H.264 video encoding Supports 8M ISP, HDR
Storage	32GB / 64GB / 128GB eMMC 1 × M.2 PCIe 3.0 (Supports 2242 / 2280 NVMe SSD) 1 × SATA 3.0 (Supports 2.5” SSD/HDD) 1 × TF-Card Slot (Supports TF card expansion)
RAM	2GB / 4GB / 8GB LPDDR4, 32Bit, frequency up to 1600MHz, supports all-data-link ECC
OS	Android, Ubuntu
Size	179 × 105.2 × 41.5mm

EC-R3566PC

Firefly

EC-R3566PC

QUAD-CORE

64-BIT
EMBEDDED COMPUTER

FIREFLY

INDUSTRIAL COMPUTERS

- High Performance
- High Reliability
- High Scalability
- Supports Multiple OS

SOC	RockChip RK3566
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 1.8GHz
GPU	ARM G52 2EE Supports OpenGL ES 1.1/2.0/3.2. OpenCL 2.0. Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	4K 60fps H.265/H.264/VP9 video decoding 1080P 100fps H.265/H.264 video encoding Supports 8M ISP
Storage	8GB / 16GB / 32GB / 64GB eMMC 1 × M.2 PCIe 2.0 (Supports 2242 NVMe SSD) 1 × TF-Card Slot (Expand with TF card)
RAM	1GB / 2GB / 4GB / 8GB LPDDR4 32Bit, supports all-data-link ECC
OS	Android, Ubuntu, Buildroot + QT, Station OS
Size	93.5 × 82 × 20mm

IPC-M10R800-A3568J

IPC-M10R800-A3399C

Firefly

IPC-M10R800-A3568J

QUAD-CORE

AI INDUSTRIAL TABLET PC

Dual Gigabit Ethernet

10.1” IPS HD LCD Screen

SOC	Rockchip RK3568
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, frequency up to 2.0GHz
GPU	ARM G52 2EE, OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1 Embedded high-performance 2D acceleration hardware
Storage	32GB / 64GB / 128GB eMMC Supports M.2 NVMe SSD (M.2 PCIe 3.0, 2242/2280 NVMe) Supports 2.5” SSD/HDD (7mm, SATA3.0) Supports TF-Card
RAM	2GB / 4GB / 8GB LPDDR4 Supports all-data-link ECC
Ethernet	Supports dual Gigabit Ethernet (1000 Mbps) LAN (PoE) supports POE+ (802.3 AT, output power 30W) power supply
OS	Android, Ubuntu

IPC-M10R800-A3399C

HEXA-CORE

INDUSTRY PANEL COMPUTER

Capacitive 10-Point Touch

IPS Screen

SOC	Rockchip RK3399
CPU	Dual-core(Cortex-A72) + Quad-core(Cortex-A53), frequency up to 1.8 GHz
GPU	Quad-core ARM Mali-T860 Support OpenGL ES 1.1/2.0 /3.0, OpenVG1.1, OpenCL, Directx11
NPU	AI architecture, computing power 2.8Tops, 9.3Tops/W energy efficiency
Storage	8GB / 16GB High-Speed eMMC TF Card
RAM	2GB / 4GB Dual-channel LP DDR4
Ethernet	Gigabit Ethernet (RJ45)
Network	On-board WIFI & BT module, Support 2.4GHz / 5GHz Dual-band WiFi, 802.11a/b/g/n/ac protocol Bluetooth 4.1, Mini PCIe

Firefly

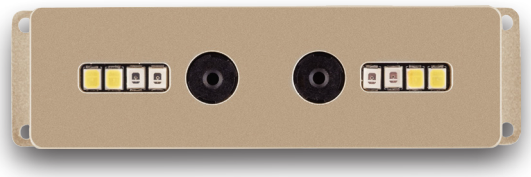
SMART DEVELOPER KITS

INTELLIGENT IoT KIT

SYSTEMS & SERVICES

The micro IoT board and sharp-resolution display provide a high-performance IoT kit which can support development applications such as Automatic Speech Recognition (ASR), Human Machine Interaction (HMI) and industrial control.

SOC	Rockchip RK3308B
CPU	Quad-core 64-bit ARM Cortex-A35, frequency 1.3GHz
Storage	4GB eMMC (4GB / 8GB / 16GB / 32GB / 64GB / 128GB Supported) 16MB ~512 MB SPI Flash MicroSD (TF) Card Slot
RAM	256M DDR3 (128MB ~ 512MB optional)
Ethernet	10/100Mbps Gigabit Ethernet (RJ45)
Screen	4 / 7-inch IPS full view screen
Size	95.15mm × 60.00 mm



CAM-C1126S2

DUAL-LENS CAMERA MODULE

Quad-core AI intelligent vision processor is ideal to run various AI frameworks and for high recognition accuracy human detection: face/ gesture/expression recognition, gate access control, face attribute analysis.

SOC	RV1126
CPU	Quad-core ARM Cortex-A7 32-bit @1.5GHz, NEON and FPU. Per core 32KB I-cache, 32KB D-cache and 512KB shared second-level cache
NPU	Computing power up to 2.0Tops, supports INT8/ INT16. Compatible with common AI framework models.
Storage	8GB / 16GB eMMC
RAM	1GB / 2GB DDR4
OS	Linux
Size	84.0 × 22.45 × 19.35mm

C40PL

OPEN SOURCE AI CAMERA

AI vision processor and 4MP camera provide high-sensitivity imaging. Suitable for smart security, face recognition/capture, license plate recognition, human flow monitoring, etc.

SOC	RV1126 quad-core ARM Cortex-A7 32-bit kernel, integrated with NEON and FPU
NPU	Computing power up to 2.0Tops, supports INT8/ INT16. Compatible with common AI framework models.
Camera	Focal Length 5.2mm (1.18m ~ 6.38m), 1520P (2688×1520, 4M pixel) resolution
Storage	16GB eMMC
RAM	2GB DDR4
Protocols	RTSP/RTMP
Triggers	Motion / Intrusion / Covering detection
Modes	Day/Night switching, Fill Light

STATION P2

Stationpc

STATION P2

MINI PC

SOC	RockChip RK3568
CPU	Quad-core 64-bit Cortex-A55, frequency up to 2.0 GHz
GPU	ARM G52 2EE OpenGL ES 1.1/2.0/3.2, OpenCL 2.0, Vulkan 1.1
NPU	Integrated 0.8Tops@INT8 NPU
VPU	Video decoding: 4K@60fps, H.265/H.264/VP9/HEVC Format: MOV/VOB/AVI/MKV/TS/MP4
RAM	2GB / 4GB / 8GB LPDDR4
Storage	16GB / 32GB / 64GB / 128GB eMMC Storage Expansion M.2 PCIe3.0 NVMe SSD (2242/2280) SATA 3.0 SSD/HDD (2.5”, 7mm thick) TF Card Slot ×1
Wireless	2.4GHz/5GHz dual-band WiFi, Supports WiFi6, 802.11a/b/g/n/ac/ax Bluetooth 5.0
Ethernet	2 × Gigabit Ethernet (RJ45, 1000 Mbps)
Display	HDMI2.0a 4K@60Hz
Buttons	1 × Power Button 1 × Reset Button (below 3.5mm jack)
Interface	1 × Control Port (1×RS485 + 2×RS232) 1 × USB 3.0 2 × USB 2.0 1 × USB-C(OTG)
Power	DC 12V
OS	Android, Ubuntu, Buildroot + QT, Station OS Supports TF card, EMMC, SSD, Udisk bootup
Size	142 × 89 × 31.5 mm

STATION P1

Stationpc

STATION P1 PRO

MINI PC

SOC	RockChip RK3399
CPU	6-core 64-bit (2× Cortex- A72) + (4× Cortex- A53) processor, frequency up to1.8GHz
GPU	Mali-T860 MP4 Quad-core GPU Supports OpenGL ES1.1/2.0/3.0/3.1, OpenVG1.1, OpenCL, DX11
VPU	4K@60fps H265/H264/VP9 decoding 1080P multi-format video decoding (WMV, MPEG-1/2/4, VP8) 1080P video encoding (H.264, VP8)
RAM	2GB / 4GB / LPDDR4
Storage	16GB / 32GB / 64GB / 128GB eMMC (onboard) Storage Expansion M.2 PCIe2.1 NVMe SSD (2242) Supports TF card
Wireless	2.4G Hz/5GHz dual-band WiFi, 802.11 a/b/g/n/ac protocol Bluetooth 5.0 (Supports BLE)
Ethernet	1 × 1000Mbps Ethernet (RJ45)
Display	1 × HDMI 2.0, 4K@60Hz 1 × DP1.2 (USB-C) , 4K@60Hz * Supports dual-screen display: 1 × USB-C (2K output) + 1 × HDMI (4K output)
Audio	1 × Audio (3.5mm, with MIC) 1 × HDMI output 1 × DP output (Type-C)
USB	1 × USB 2.0 (Limit: 500 mA) 1 × USB 3.0 (Limit: 1000 mA) 1 × USB-C (USB3.0 / OTG / DP1.2)
Buttons	1 × Power Button 1 × Reset Button (below 3.5mm jack)
IR	Supports infrared remote control
Power	DC12V-2A (5.5*2.1mm), Supports 9-12V wide voltage input
OS	Android, Ubuntu, Debian, Linux+QT, StationOS Supports TF card, EMMC, SSD, Udisk bootup
Size	124.4 × 79 × 31.6 mm

STATION M2

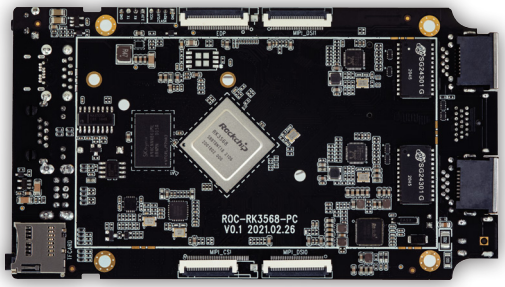
Stationpc

STATION M2

MINI PC

SOC	RockChip RK3566
CPU	Quad-core 64-bit Cortex-A55, 22nm lithography process, up to 1.8GHz
GPU	ARM G52 2EE Supports OpenGL ES 1.1/2.0/3.2. OpenCL 2.0. Vulkan 1.1 Embedded high-performance 2D acceleration hardware
NPU	0.8Tops@INT8, integrated high-performance AI accelerator RKNN NPU Supports one-click switching of Caffe/TensorFlow/TFLite/ONNX/PyTorch/Keras/Darknet
VPU	4K 60fps H.265/H.264/VP9 decoding 1080P 100fps H.265/H.264 encoding Supports 8M ISP
RAM	2GB / 4GB / 8GB LPDDR4 32Bit, supports all-data-link ECC
Storage	32GB / 64GB / 128GB eMMC 1 × M.2 PCIe 2.0 (Expand with 2242 NVMe SSD) 1 × TF-Card Slot (Expand with TF card)
Wireless	Dual-band WiFi (802.11 a/b/g/n) Bluetooth 5.0
Ethernet	Gigabit Ethernet (RJ45, 1000 Mbps)
Display	1 × HDMI2.0. Supports 4K@60fps output 1 × MIPI DSI. Supports 1920*1080@60fps output (or dual-channel 1 × MIPI DSI 2560*1440@60fps)
Audio	1 × HDMI audio output 1 × Earphone output
Power	5V (Via Type-C port)
Interface	HDMI2.0, USB3.0, USB2.0, MIPI DSI, MIPI CSI, I2C, SPI, UART, ADC, PWM, GPIO, PCIe, I2S
OS	Android, Ubuntu, Buildroot + QT, Station OS
Size	93.8 × 65.0 × 15.8mm

MINI PC BOARDS



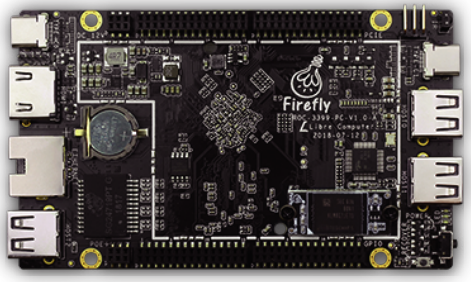
ROC-RK3568-PC

QUAD-CORE

64-BIT MINI COMPUTER

WIFI-6, 160MHz 9.6Gbps

2×MIPI-CSI 2×MIPI-DSI HDMI 2.0 EDP



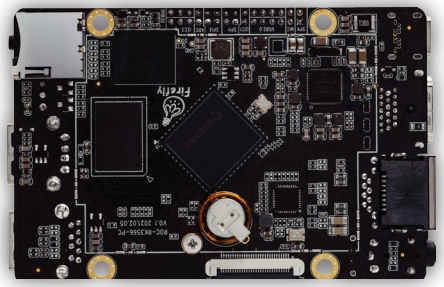
ROC-RK3566-PC

QUAD-CORE

64-BIT MINI COMPUTER

HDMI2.0 USB3.0

MIPI DSI I2C UART PCIe



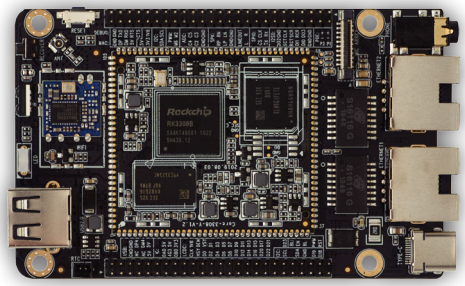
ROC-RK3399-PC

HEXA-CORE

64-BIT HIGH-PERFORMANCE BOARD

MIPI/eDP MIPI CSI 2×Type-C

3×USB 2.0 HDMI 2.0 GPIO



ROC-RK3308B-CC+

QUAD-CORE

64-BIT AIOT BOARD

3×PWM 3×I2C 3×UART

1×SPI 1×I2S 4×ADC LineOut

Firefly

NOTES

NOTES

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