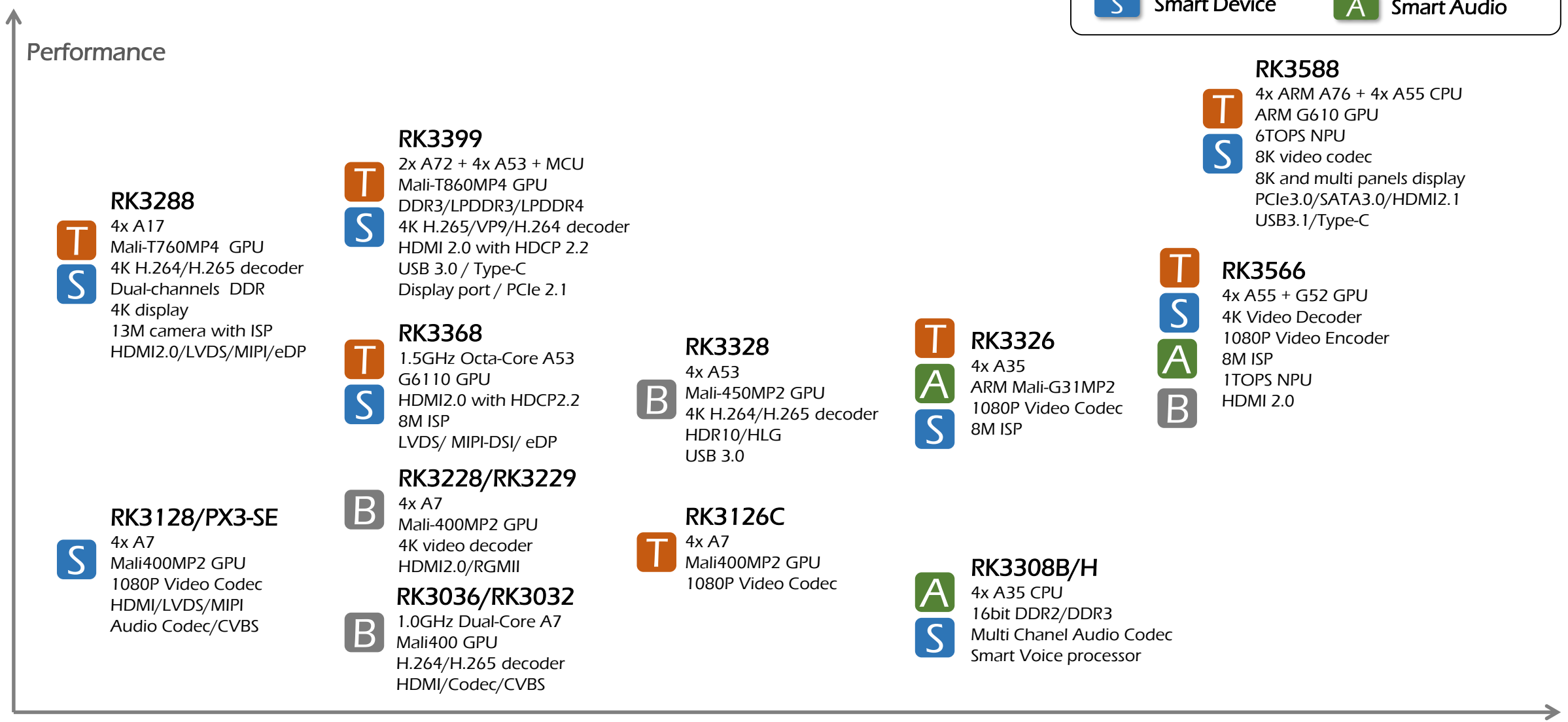
Products Roadmap

2022.01

Rockchip SoC Roadmap for Consumer Electronics



Rockchip Confidential Proprietary

Rockchip SoC Roadmap for IOT

Operation System

A Android L Linux

Performance

RK3288
A L
4x A17
Mali-T760MP4 GPU
4K H.264/H.265 decoder
Dual-channel DDR
4K display
13M camera with ISP
HDMI2.0/LVDS/MIPI/eDP

RK3188/PX3
A
4x A9
Mali400MP4 GPU
1080P Video Codec

RK3128/PX3-SE
A
4x A7
Mali400MP2 GPU
1080P Video Codec
HDMI/LVDS/MIPI
Audio Codec/CVBS

RK3399
A L
2x A72 + 4x A53 + MCU
Mali-T860MP4 GPU
DDR3/LPDDR3/LPDDR4
4K H.265/VP9/H.264 decoder
HDMI 2.0 with HDCP 2.2
USB 3.0 / Type-C
Display port / PCIe 2.1

RK3368/PX5
A
1.5GHz 8x A53
G6110 GPU
4K@60fps H.265 decoder
HDMI2.0 with HDCP2.2
8M ISP
LVDS/MIPI-DSI/eDP

RK3399Pro
A L
A72 + A53 CPU
Mali-T860MP4 GPU
3TOPS NN process
DDR3/LPDDR3/LPDDR4
4K H.265/VP9/H.264 decoder

PX30
A L
4x A35
ARM Mali-G31MP2
1080P Video Codec
MIPI/LVDS/Dual display
8M ISP/RMII

RK3308B/H
L
4x A35 CPU
16bit DDR2/DDR3
Multi Chanel Audio Codec
Smart Voice processor

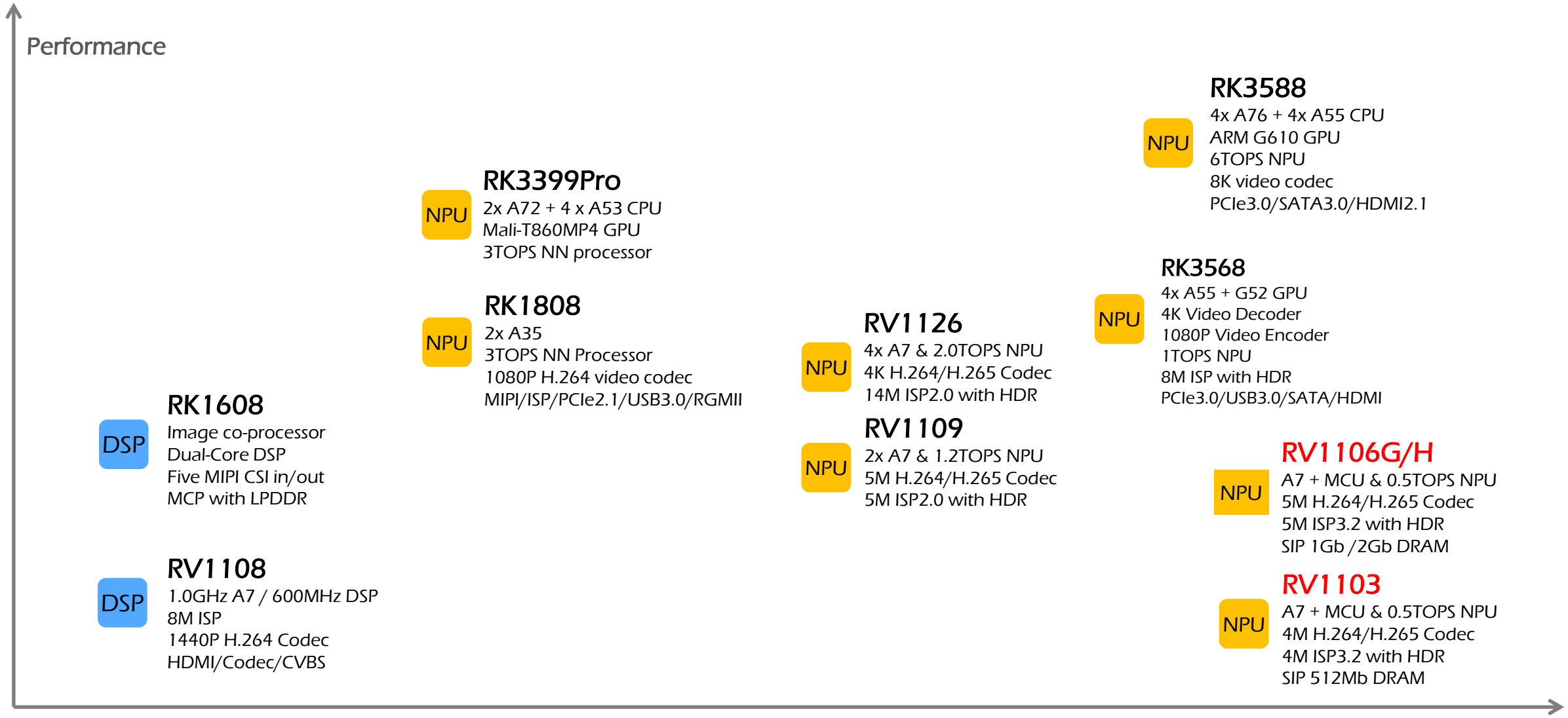
RK3588
A L
4x ARM A76 + 4x A55 CPU
ARM G610 GPU
6TOPS NPU
8K video codec
8K and multi panels display
PCIe3.0/SATA3.0/HDMI2.1
USB3.1/Type-C

RK3568
A L
4x A55
ARM G52 GPU
Video 4K Decoder and 1080P Encoder
1TOPS NPU
8M ISP with HDR
PCIe3.0/USB3.0/SATA3.0/HDMI

RK3358J
A L
4x A35
ARM Mali-G31MP2
1080P Video Codec
MIPI/LVDS/Dual display
8M ISP.RMII

Rockchip Confidential Proprietary

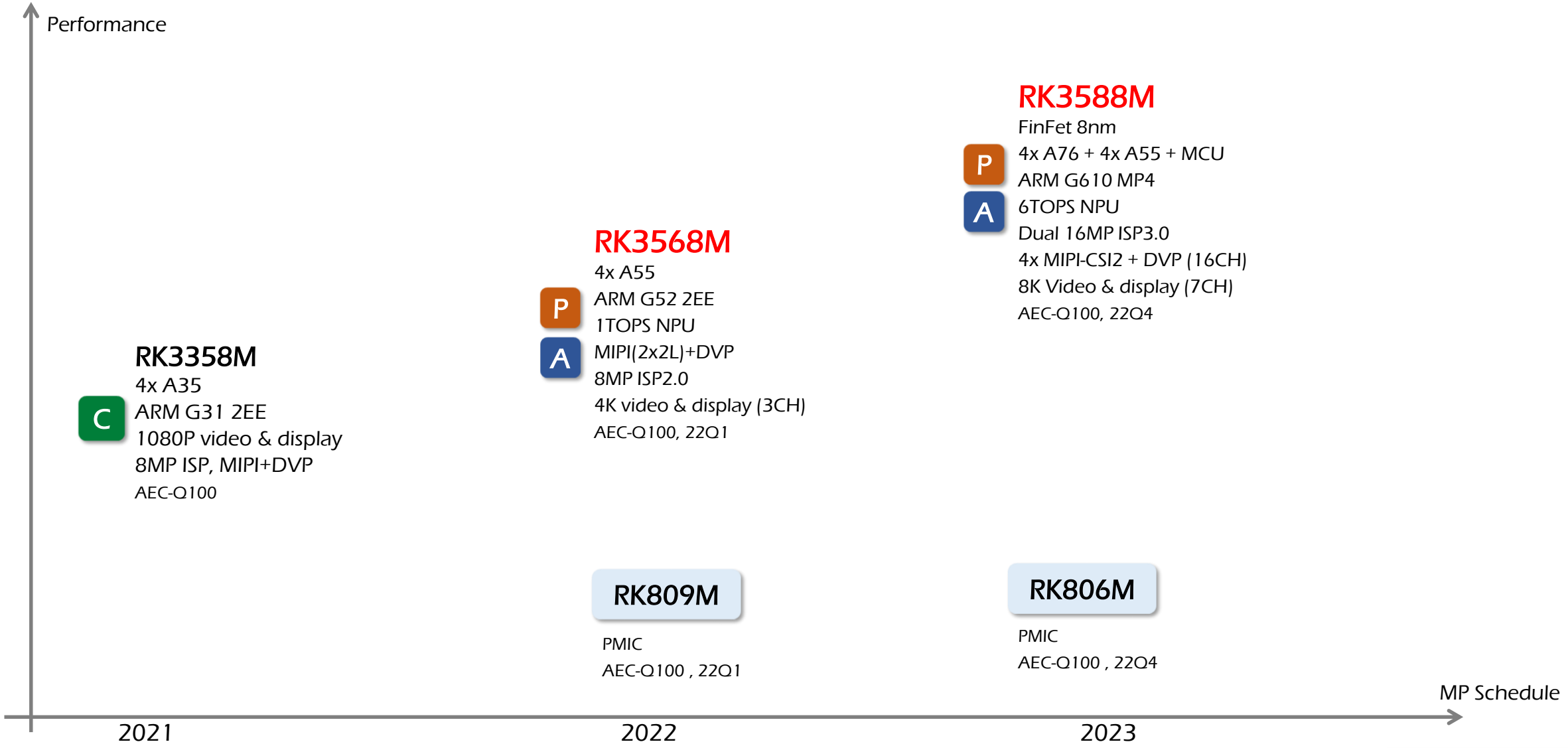
Rockchip SoC Roadmap for AI & Vision



Rockchip Confidential Proprietary

Rockchip Roadmap for Auto

A-ADAS Cluster Cockpit



Rockchip Confidential Proprietary

Rockchip

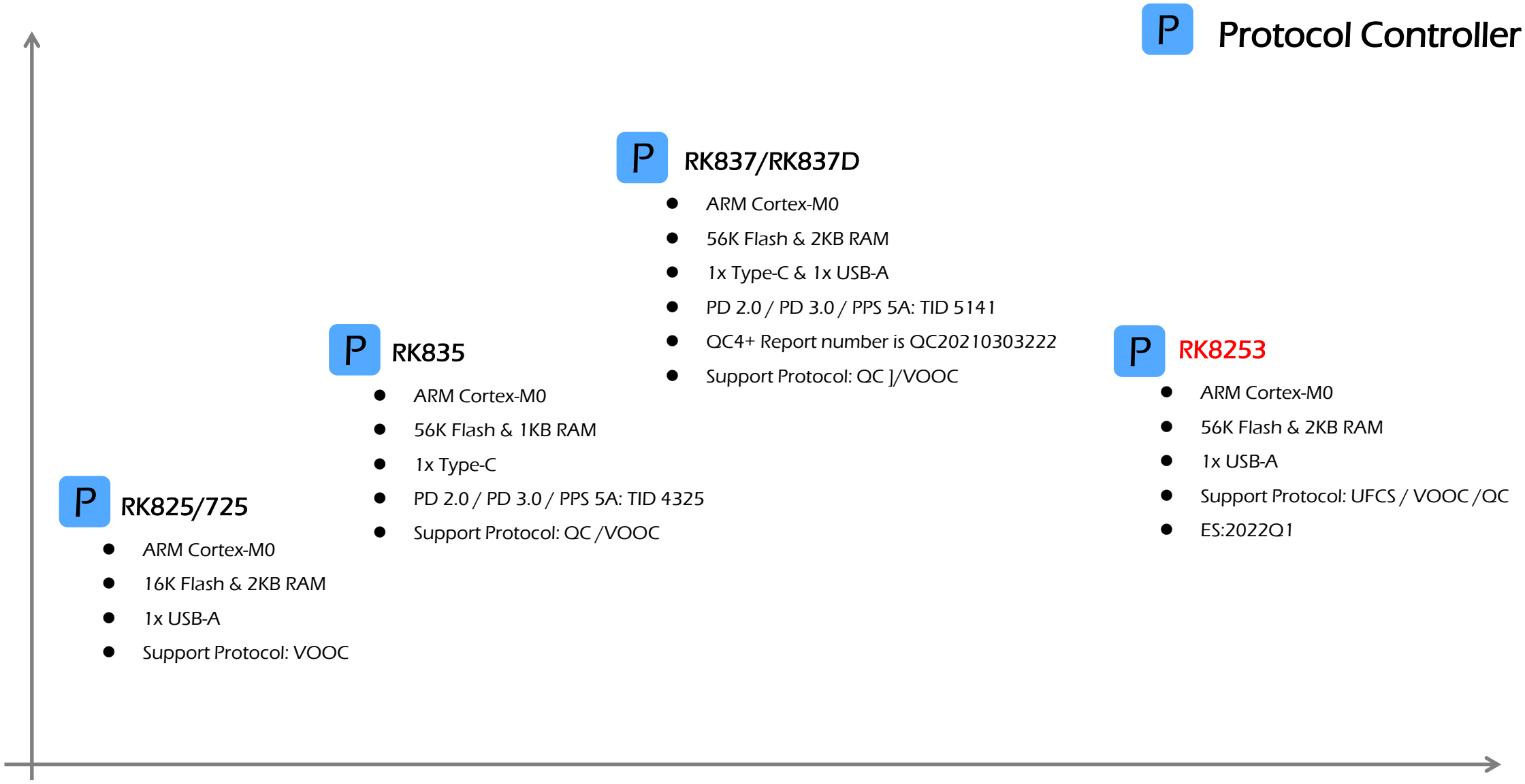
Rockchip Commercial and Industrial Grade SoC

Chips	Consumer Grade 0~80℃	Commercial Grade -20~85℃	Auto Grade -40~85℃	Industrial Grade -40~85℃
RK3588	RK3588		RK3588M	
RK3399 Series	RK3399	RK3399K		
RK3288 Series	RK3288(W Version)	RK3288K		
RK3568 Series	RK3568		RK3568M	RK3568J
RK3368 Series	RK3368	PX5		
PX30 Series	PX30	PX30K		
RK3358 Series			RK3358M	RK3358J
RK3308 Series	RK3308B/RK3308H	RK3308GK/RK3308K		
RV1108 Series	RV1108A / RV1108G			RV1108K1
RK1808 Series	RK1808			RK1808K
RV1109/RV1126	RV1109/RV1126			RV1126K

1. Commercial、Auto and Industrial Grade chipset support long term supply
2. RK3358M had got the certification of AEC-Q100
3. RK3568M and RK3568J in CS sample now，will be MP in Q1/2022
4. Please contact local sales for more information about chipset life cycle

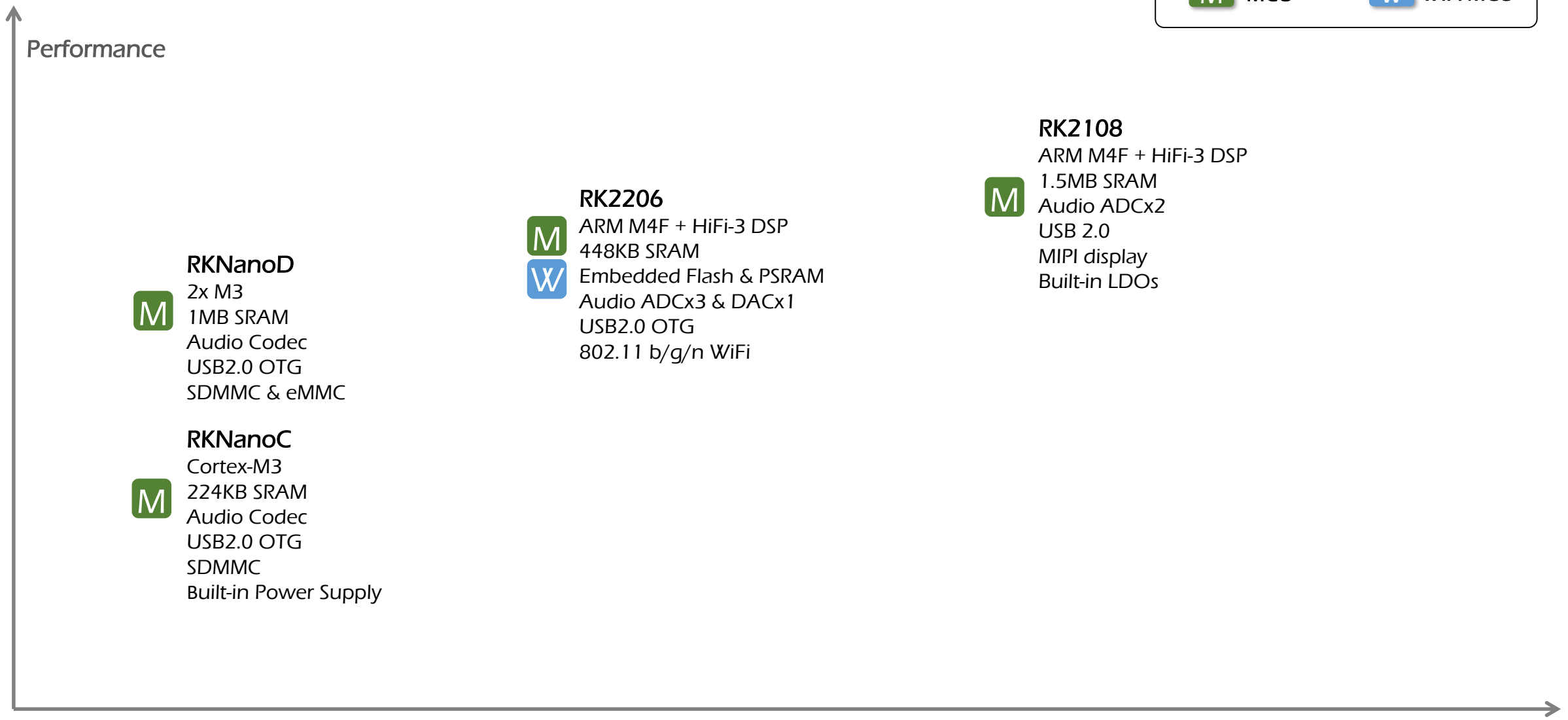
Rockchip Confidential Proprietary

Rockchip Roadmap for Quick Charger Protocol Controller



Rockchip Confidential Proprietary

Rockchip Roadmap for MCU



Rockchip Confidential Proprietary

Rockchip Roadmap for Interface & WiFi Chip

Application

IF Interface chip W WiFI/BT Chip

RK630

- Audio Codec
- Low power RTC
- 100M MAC PHY
- RGB To CVBS Out
- ES 2022Q1

RK628D/E

- 4K @60fps HDMI input
- 4K@60fps GVI output
- 2K@60fps dual MIPI DSI Output
- 4k@30fps MIPI CSI Output
- 1080P@60fps dual LVDS Output
- Embedded MCU（RK628E）
- Audio interface
- I2C configured interface

RK915

- Low power WLAN connectivity
- Supports IEEE 802.11b/g/n
- Integrated design with internal PA, TR switch, Balun, LNA

RK618

- RGB input interface
- LVDS output with dual channels
- MIPI display output
- HDMI1.4 display output
- Audio interface
- I2C configured interface

RK616

- RGB input interface
- LVDS output
- HDMI1.4 display output
- Audio interface
- I2C configured interface

Rockchip Confidential Proprietary

Rockchip Power Management IC

PMIC	DCDC	LDO & Switch	Charge	Gas Gauge	Codec	Package	Part Number	For Soc
RK818	4A*2 2.5A*2 Boost*1	150mA*4 100mA*1 300mA*3 400mA*1 HDMI-5V Switch *1/OTG	3A	√	–	QFN68 (7*7mm)	RK818-1 RK818-2 RK818-3	RK3288/RK3368 Sofia 3GR RK3399
RK817	2.5A*2 1.5A*2	400mA*8 100mA*1 OTG	3A	√	HP out*1 Mic in*2 1.3W Class D*1	QFN68 (7*7mm)	RK817-1 RK817-5 RK817-6	RK3326 PX30 RK3566/RK3568 RK3326-S
RK816B	2A*2 1A*2	300mA*5 100mA*1 OTG	2A	√	–	QFN40 (5*5mm)	RK816B-1 RK816B-2 RK816B-3 RK816B-6	RK3128/RK3126C RV1108 RK3308/PX3-SE RK3308B/H-S
RK812	1.5A*1	600mA*1 400mA*1 100mA*2	1A	–	HP out*1 Mic in*3 1.7W Class D*1	QFN36 (4*4mm)	RK812-1	RK2206

Rockchip Confidential Proprietary

Rockchip Power Management IC

PMIC	DCDC	LDO & Switch	Charge	Gas Gauge	Codec	Package	Part Number	For Soc
RK809	2.5A*3 1.5A*2	400mA*8 100mA*1 Switch *2	–	√	HP out*1 Mic in*2 1.3W Class D*1	QFN68 (7*7mm)	RK809-1 RK809-2 RK809-3 RK809-5 RK809-6	PX30 RK1808 RK3399PRO RK3566/3568 RK3326-S
RK808	5A*2 3A*1 2.5A*1	150mA*3 100mA*1 300mA*3 Switch *2	–	–	–	QFN68 (7*7mm)	RK808-B RK808-C RK808-D	RK3288/RK3368 RK3288 Chrome Book RK3399
RK806	6.5A*1 5A*3 2.5A*6	300mA PLDO*4 500mA PLDO*2 300mA NLDO*3 500mA NLDO*2	–	–	–	QFN68 (7*7mm)	RK806-1 RK806-2	RK3588
RK805	2.5A*2 1.5A*2	100mA*1 300mA*3	–	–	–	QFN32 (4*4mm)	RK805-1 RK805-2 RK805-3	RK3328/RK3228 RV1108 RK3128/RK3036
RK860	6A*1	–	–	–	–	WLCSP20 (1.65*2.05mm)	RK860-0 RK860-1 RK860-2 RK860-3	RK3588 RK3568/RK3566 RK3399 RK3288

Rockchip Confidential Proprietary

3D Structured Light Module Series

Wechat Pay/Union Pay

RMSL201

微信支付 BCTC 国家金融科技测评中心 National FinTech Evaluation Center 银行卡检测中心 Bank Card Test Center

- 3x UVC with 1 USB2.0 interface
- BCTC certification
- Wechat certification
- MP

RMSL205

微信支付 BCTC 国家金融科技测评中心 National FinTech Evaluation Center 银行卡检测中心 Bank Card Test Center

- 3x UVC with 1 USB2.0 interface
- Support outdoor application, 50-100000lux
- Applicable to be independent peripheral
- BCTC certification
- Wechat certification
- MP

Union Pay

RMSL202

BCTC 国家金融科技测评中心 National FinTech Evaluation Center 银行卡检测中心 Bank Card Test Center

- In-module liveness algorithm
- UVC with USB 2.0
- Customized
- BCTC certification
- MP

RMSL204

BCTC 国家金融科技测评中心 National FinTech Evaluation Center 银行卡检测中心 Bank Card Test Center

- In-module liveness algorithm
- UVC with USB 2.0
- Ultrathin design for hand-held terminal
- BCTC certification
- DVT

intelligent door lock

RMSL311

- In-module liveness algorithm
- Very Simple UART interface
- Support outdoor application
- Very small and exquisite design for Smart Lock

Rockchip Confidential Proprietary

Rockchip

Thank You!

Contact Us
Building No.18, A District,
Fuzhou Software Park,
89 Soft Avenue, Tongpan Road,
Gulou District, Fuzhou, Fujian, China
P.C: 350003
TEL: 86-591-83991906 FAX: 86-591-83951833

Rockchip 瑞芯微电子

SH603893