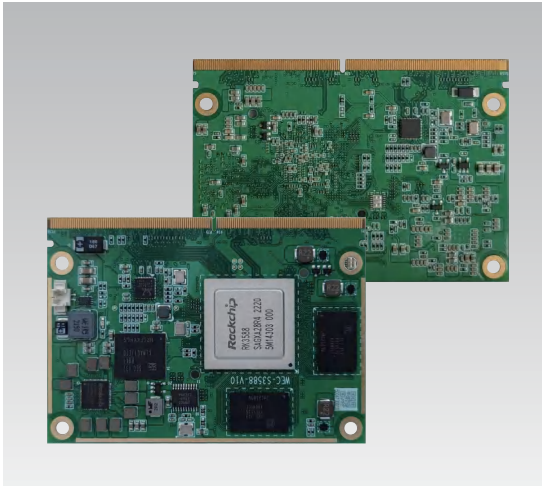




WEC-S3588

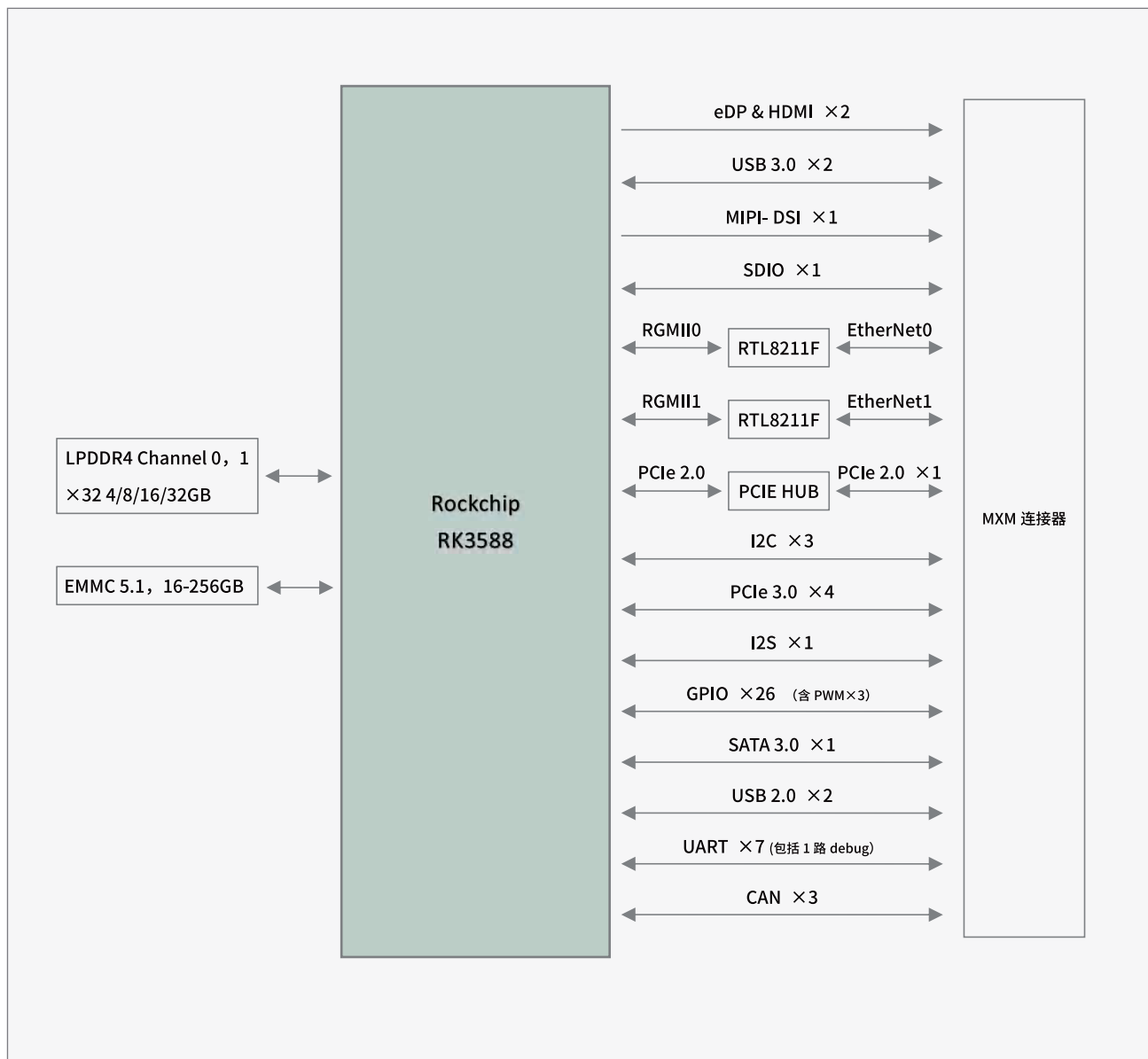
FEATURE:

- Belong to the "Sprite" series core-board, featuring excellent compatibility and being compatible with other core boards of the Sprite series
- Rockchip RK3588 , 4×Cortex-A76+4×Cortex-A55
- NPU: 6 Tops computing power
- Up to 32 GB
- Display: HDMI, MIPI, eDP
- 1×4-lane PCIe3.0, 1×1-lane PEle 2.0
- 4×USB, 1×SATA 3.0, 7×UART, 26×GPIO

SPECIFICATION

Product Model	Product Model	WEC-S3588
SoC	SoC modle	RockChip RK3568
	CPU	8 cores ARM processor, Including 4×Cortex-A76 & 4× Cortex-A55 Frequency: A76 @2.4 GHz; A55 @1.8GHz
	NPU	AI Computing Power: 6 Tops @Int 8, Support mixed operations of int4/int 8/int 16/FP16/TF32
	GPU	ARM Mali-G610, Supports OpenGL ES 1.1、2.0、3.2, OpenCL 2.2 和 Vulkan1.2 Special 2D
	VPU	Supports 8K @30fps、4K @60fps encoding; Supports 8K @60fps decoding
Memory	Type	LPDDR4X (LPDDR4/LPDDR4X 32bit), Onboard Memory
	Max Capacity	32 GB
Storage	eMMC	eMMC 5.1, 32/64/128 GB
	SATA	1 × SATA 3.0, supports 2.5' SSD/HDD
	PCIe	1 × M.2 PCIe 3.0, supports NVMe SSD
	SD	1× SDIO, supports SD card slot
Display	eDP & HDMI	2×eDP 1.3, 2560×1600 @60fps; or 2×HDMI 2.1, 4K @60fps; or 1×eDP1.3 & 1×HDMI2.1
	MIPI DSI	1×MIPI DSI, up to 1920×1080 @60fps
Ethernet	LAN	2, 10/100/1000 Mbps, RTL8211
I/O Interface	USB	2 × USB 3.0, 2 × USB 2.0
	PCIe	1×4-lane PCIe3.0, 1 × Single-lane PCIe 2.0
	SATA	1×SATA3.0
	SDIO	1
	UART	7
	GPIO	26, Including 3×PWM
	I2C	3
	I2S	1, audio interface
	CAN	3
	Watchdog	Support
Power Supply	Type	DC
	Input Voltage	9~24V
Environment	Operating Temp.	Common grade: -10~60°C, Industrial grade: -40~85°C
	Storage Temp.	-40~85°C
	Operating Humi.	10- 90% @ 40°C, non-condensing
	Storage Humi.	0- 95% @ 60°C, non-condensing
Operating System	OS	Android 12、Ubuntu 18.04
Dimension	Outside Dime.	82 × 58 mm

BLOCK DIAGRAM



ORDER INFORMATION

产品型号	CPU	内存	eMMC	AI算力	eDP & HDMI	UART	GPIO	工作温度
WEC-S3588	RK3588	最大32GB	最大256GB	6 TOPS	2	7	26	-10~70℃
WEC-S3588I	RK3588J	最大32GB	最大256GB	6 TOPS	2	7	26	-40~85℃

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