

芯创D21x系列工业级MPU芯片选型表

产品型号	CPU	存储		封装	HMI和多媒体						通信和接口						计时器						安全	启动	结温	包装		
		RAM	FLASH		图形加速	显示接口	触摸	摄像头	图像编解码	音频	以太网	USB控制器	SDIO	UART	I ² C	CA N	SPI	ADC	PWM	EPW M	CAP	QEP					GTC	RTC
D211BBV	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR2 16bit 533MHz 64MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	1xEMAC	1xUSB 2.0	1	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-20~105°C	盘168包1680
D211BBX	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR2 16bit 533MHz 64MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	1xEMAC	1xUSB 2.0	1	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-40~125°C	盘168包1680
D211BCV	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	1xEMAC	1xUSB 2.0	1	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-20~105°C	盘168包1680
D211BCX	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	1xEMAC	1xUSB 2.0	1	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-40~125°C	盘168包1680
D211DBV	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR2 16bit 533MHz 64MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN100, 12x12mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	2xEMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-20~105°C	盘189包1890
D211DBX	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR2 16bit 533MHz 64MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN100, 12x12mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	2xEMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-40~125°C	盘189包1890
D211DCV	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN100, 12x12mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	2xEMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-20~105°C	盘189包1890
D211DCX	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN100, 12x12mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	2xEMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-40~125°C	盘189包1890
D213ECV	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN128, 12.3x12.3mm, 0.35mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xADC, 2ch DMIC&SPK, 2xPS/PCM/TDM	2xGMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-20~105°C	盘152包1520
D213ECX	RISC-V 64bit @504MHz 1.1V @600MHz 1.2V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN128, 12.3x12.3mm, 0.35mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	DVP&BT.656 5M 1080p@30fps	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xADC, 2ch DMIC&SPK, 2xPS/PCM/TDM	2xGMAC	2xUSB 2.0	2	8	4	2	4	8	4	6	3	2	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	3S	-40~125°C	盘152包1520
D215BBV	RISC-V 64bit @504MHz 1.1V	Built-In DDR2 16bit 533MHz 64MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	-	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	-	1xUSB 2.0	1	4	4	-	4	8	4	-	-	-	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	200ms	-20~105°C	盘168包1680
D215BCV	RISC-V 64bit @504MHz 1.1V	Built-In DDR3 16bit 672MHz 128MB	external SPI NAND/Nor Flash, eMMC 4.41	QFN88, 10x10mm, 0.4mm	2D	MIPI/RGB888/LVDS 1080P@60fps	Built-In 4线RTP, 两点触摸	-	JPEG Codec 1080p@60fps H.264 Decoder 1080p@30fps PNG Decoder 1080p@15fps	1xAMIC, 2xDMIC&SPK, 1xPS/PCM/TDM	-	1xUSB 2.0	1	4	4	-	4	8	4	-	-	-	1	1	SPI总线加密, 安全启动, 固件加密, 固件防回退, AES、TDES、HMAC、SHA、MD5、RSA、TRNG硬件加速	200ms	-20~105°C	盘168包1680