

AGM Micro (邀格芯) 成立于2012年, 是国内领先的提供可编程逻辑SoC芯片的半导体集成电路无生产线设计公司。AGM自主研发并量产国内可编程逻辑SoC的产品系列, AGM自有编译全套软件(包括自有synthesis, place, route, timing, bitstream等软件专利权)和电路技术; 国产唯一的同比对标美国厂商utilization 99+% (高容量高性价比核心技术)。AGM 软件同时提供功能选项, 可部分兼容美国厂商软件生态。

AGM办公室位于上海, 杭州, 北京和香港。

AGM主要产品列表：

◆ CPLD

型号	LEs	User Flash	PLL	RAM	封装
AG256	256	256 Kbits	0	0	LQFP-100
AG576	576	256 Kbits	1	0	LQFP-100 LQFP-144
AG1280	1280	128 Kbits	1	68 Kbits	QFN-32 QFN-48

◆ IoT FPGA

型号	LEs	PLL	Block RAM	Distributed RAM	配置方式	封装	Others
AG1K	1280	1	68 Kbits	10 Kbits	SPI Master/Slave	WLSCP-16 ucBGA-36 QFN-48	
AG3K	2336	1	54 Kbits	18 Kbits	SPI Master/Slave	QFN-48	Hardened I2C/SPI Preamplifier LED Sink

◆ FPGA / +MCU

型号	LEs	PLL	Block RAM	Multipliers	配置方式	封装	MCU
AG6K	6K	2	414 Kbits	23	JTAG, AS/PS	LQFP-144 FBGA-256	ARM M3
AG10K	10K	2	414 Kbits	23	JTAG, AS/PS	LQFP-144 FBGA-256	
AG16K	16K	4	504 Kbits	56	JTAG, AS/PS	FBGA-256	

◆ FPGA / +SDRAM

型号	LEs	PLL	Block RAM	Multipliers	配置方式	封装	Embedded DRAM
AG10KSD	10K	2	414 Kbits	23	JTAG, AS/PS	EQFP-176	64 Mbits SDRAM
AG16KSD	16K	4	504 Kbits	56	JTAG, AS/PS	EQFP-176 FBGA-256	
AG16KDD	16K	4	504 Kbits	56	JTAG, AS/PS	FBGA-256	128Mbits DDR

AGM Device	Altera	Xilinx		Lattice	MicroSemi
AG256SL100 (CPLD)	EPM240T100CxN EPM240T100IxN	<i>CoolRunner II</i> XC2C32 XC2C64 XC2C128 XC2C256 XC2C512	<i>XC9500</i> XC9536 XC9572 XC95144 XC95216 XC95288	<i>MachXO2</i> LCMXO2-256 LCMXO2-640 LCMXO2-1200	<i>ProASIC3</i> A3P030 A3P060 A3P125 A3P250
AG576SL100 (CPLD)	EPM570T100CxN EPM570T100IxN				
AG576SL144 (CPLD)	EPM570T144CxN EPM570T144IxN				
AG1280Q32 (CPLD)	EPM1270				
AG1280Q48 (CPLD)					
AG1KLPQ48 (FPGA)	/	/	ICE5LP1K		
AG1KLPGA36 (FPGA)	/	/	ICE40LP1K-CM36		
AG3KLPQ48 (FPGA)	/	XC3S50	ICE40UP3K		
AG1KLM – AG4KLM (FPGA)	/	/	ICE40LM1K ICE40LM2K ICE40LM4K		

Below the table, there is a MCU hardcore embedded in AGM FPGA products.
Some *STM32F1xx*(partial function) applications can be replaced by below AGM FGAs .

AG6KL144	EP3C5E144 EP4CE6E22	XC3S200 XC6SLX4	LFE2-6SE LFXP2-5E	<i>SmartFusion 2</i> <i>SoC FPGA</i> M2S005 M2S010
AG6KF256	EP3C5F256 EP4CE6F17			
AG10KL144	EP3C10E144 EP4CE10E22	XC3S400 XC6SLX9	LFE2-12SE LFXP2-8E	
AG10KF256	EP3C10F256 EP4CE10F17			
AG10KSDE176 (Embedded 64Mbits SDRAM)	EP3C10 EC4CE10			
AG16KF256	EP3C16F256 EP4CE15F17	XC3S700 XC6SLX16	LFXP2-17E	
AG16KSDF256 (Embedded 64Mbits SDRAM)	EP3C16 EP4CE15			
AG16KSDE176 (Embedded 64Mbits SDRAM)				

Note: The *green colored device number* can be directly replaced without changing existing PCB (pin-compatible); *blue colored device number* can be replaced with PCB changes.