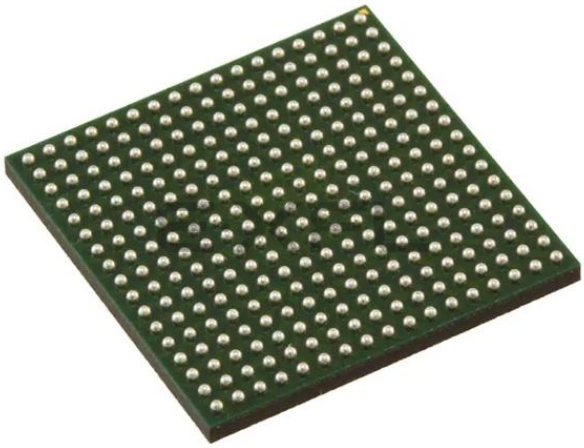

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Understanding Embedded - FPGAs (Field Programmable Gate Array)

Embedded - FPGAs, or Field Programmable Gate Arrays, are advanced integrated circuits that offer unparalleled flexibility and performance for digital systems. Unlike traditional fixed-function logic devices, FPGAs can be programmed and reprogrammed to execute a wide array of logical operations, enabling customized functionality tailored to specific applications. This reprogrammability allows developers to iterate designs quickly and implement complex functions without the need for custom hardware.

Applications of Embedded - FPGAs

The versatility of Embedded - FPGAs makes them indispensable in numerous fields. In telecommunications.

Details	
Product Status	Obsolete
Number of LABs/CLBs	-
Number of Logic Elements/Cells	3120
Total RAM Bits	36864
Number of I/O	212
Number of Gates	125000
Voltage - Supply	1.14V ~ 1.575V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	289-TFBGA, CSBGA
Supplier Device Package	289-CSP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/aglp125v2-cs289

Temperature Grade Offerings

Package	AGLP030	AGLP060	AGLP125
CS201	C, I	C, I	–
CS281	–	–	C, I
CS289	C, I	C, I	C, I
VQ128	C, I	–	–
VQ176	–	C, I	–

Notes:
1. C = Commercial temperature range: 0°C to 85°C junction temperature.
2. I = Industrial temperature range: –40°C to 100°C junction temperature.

Contact your local Microsemi SoC Products Group representative for device availability:

http://www.microsemi.com/soc/company/contact/default.aspx.

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