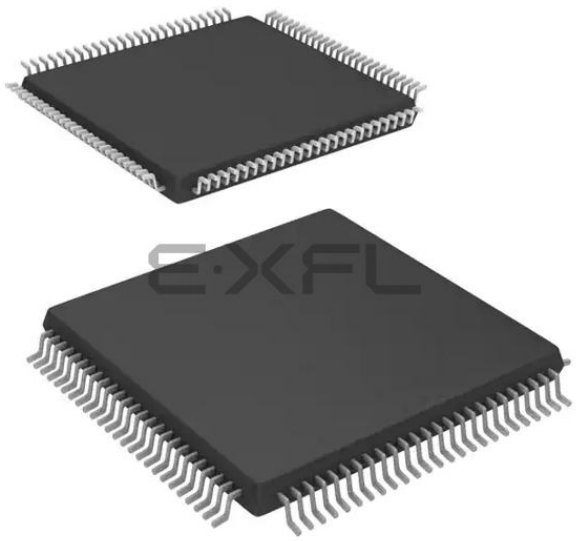

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Understanding Embedded - FPGAs (Field Programmable Gate Array)

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	-
Total RAM Bits	-
Number of I/O	83
Number of Gates	14000
Voltage - Supply	3V ~ 3.6V, 4.75V ~ 5.25V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 70°C (TA)
Package / Case	100-TQFP
Supplier Device Package	100-VQFP (14x14)
Purchase URL	https://www.e-xfl.com/product-detail/microchip-technology/a42mx09-2vq100

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138	I/O
139	I/O
140	I/O
141	GND
142	I/O
143	I/O
144	I/O
145	I/O
146	I/O
147	I/O
148	PROBA
149	I/O
150	CLKA
151	VCC
152	GND
153	I/O
154	CLKB
155	I/O
156	PROBB
157	I/O
158	I/O
159	I/O
160	I/O
161	GND
162	I/O
163	I/O
164	I/O
165	I/O
166	VCCI
167	I/O
168	I/O
169	I/O
170	I/O
171	DCLK