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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	Active
Number of LABs/CLBs	2475
Number of Logic Elements/Cells	39600
Total RAM Bits	1161216
Number of I/O	328
Number of Gates	-
Voltage - Supply	0.97V ~ 1.03V
Mounting Type	Surface Mount
Operating Temperature	-40°C ~ 100°C (TJ)
Package / Case	484-BGA
Supplier Device Package	484-FBGA (23x23)
Purchase URL	https://www.e-xfl.com/product-detail/intel/ep4ce40f23i8l