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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	11024
Number of Logic Elements/Cells	99216
Total RAM Bits	8183808
Number of I/O	1164
Number of Gates	-
Voltage - Supply	1.425V ~ 1.575V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	1696-BBGA, FCBGA
Supplier Device Package	1696-FCBGA (42.5x42.5)
Purchase URL	https://www.e-xfl.com/product-detail/xilinx/xc2vp100-5ff1696c



Datasheet for part number DAMP11W1PJK127

Our Catalog Part Number: DAMP-11W1P-J-K127	
Brand: Cannon	Product Category: D Sub Product Line: D Sub Series: COMBO D

Product Datasheet	
General	Combo D Series: D-Subminiature offering mixed layouts
Wire Gauge Range AWG	AWG 8-26
Mating Cycles	50
Contact Arrangement	11W1 (10 contacts size 20, 1 empty size 8 cavity)
Dielectric Withstanding Voltage	500 VAC at sea level
Current Rating Signal Contacts	7.5 max
Contact Resistance	10 milli Ohm max
Operating Temperature	-55°/+125°
Salt Spray Test	20 hours
Shell Material	steel
Shell Finish	Tin over nickel plating
Insulator Material	Thermoplastic, type PCT UL 94V-0
Insulator Color	black
Gender	Pin
Contact Type	Right angle US footprint
Contact Material	copper alloy
Contact Finish	30 Micro-inch gold
Mounting Method	90° Metal Bracket, 4-40 Fastener