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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	<a href="https://www.e-xfl.com/product-detail/xilinx/xc2vp100-5ffg1696c">https://www.e-xfl.com/product-detail/xilinx/xc2vp100-5ffg1696c</a>



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