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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 | -40°C ~ 100°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/xc2vp100-6ff1696i |



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 |