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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	11000
Number of Logic Elements/Cells	44000
Total RAM Bits	1990656
Number of I/O	245
Number of Gates	-
Voltage - Supply	1.045V ~ 1.155V
Mounting Type	Surface Mount
Operating Temperature	-40°C ~ 100°C (TJ)
Package / Case	554-FBGA
Supplier Device Package	554-CABGA (23x23)
Purchase URL	<a href="https://www.e-xfl.com/product-detail/lattice-semiconductor/lfe5um5g-45f-8bg554i">https://www.e-xfl.com/product-detail/lattice-semiconductor/lfe5um5g-45f-8bg554i</a>



Datasheet for part number DEM9SLNMBK52

Our Catalog Part Number: DEM-9S-L-NMBK52
Brand: Cannon Product Category: D Sub Product Line: D Sub Series: D*M

Product Datasheet	
General	D*M High reliable D-Sub Connectors
Wire Gauge Range AWG	AWG 20-28
Mating Cycles	200
Contact Arrangement	9 contacts size 20
Dielectric Withstanding Voltage	1000 VAC at sea level
Current Rating	7.5 A max
Contact Resistance	7.5 milli Ohm max
Operating Temperature	-55°/+125°
Salt Spray Test	20 hours
Shell Material	steel
Shell Finish	50 microinch gold over 100 microinch copper
Insulator Material	Thermoplastic, type PCT UL 94V-0
Insulator Color	black
Gender	Socket
Contact Type	Right angled PCB
Contact Material	copper alloy
Contact Finish	50 microinch gold over 100 microinch copper
Hardware	.120" (3,05mm) Through Hole