Lattice Semiconductor Corporation - LFE5UM5G-25F-8BG381I Datasheet

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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	6000
Number of Logic Elements/Cells	24000
Total RAM Bits	1032192
Number of I/O	197
Number of Gates	-
Voltage - Supply	1.045V ~ 1.155V
Mounting Type	Surface Mount
Operating Temperature	-40°C ~ 100°C (TJ)
Package / Case	381-FBGA
Supplier Device Package	381-CABGA (17x17)
Purchase URL	https://www.e-xfl.com/product-detail/lattice-semiconductor/lfe5um5g-25f-8bg381i

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