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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	3411
Number of Logic Elements/Cells	43661
Total RAM Bits	2138112
Number of I/O	218
Number of Gates	-
Voltage - Supply	1.14V ~ 1.26V
Mounting Type	Surface Mount
Operating Temperature	0°C ~ 85°C (TJ)
Package / Case	324-LFBGA, CSPBGA
Supplier Device Package	324-CSPBGA (15x15)
Purchase URL	https://www.e-xfl.com/product-detail/xilinx/xc6slx45-3csg324c

DO NOT SCALE	METRIC	THIRD ANGLE PROJECTION		
DIMENSIONS IN: mm				

C-166291 : SEE DWG. C-166051
 C-166292 : SEE DWG. C-166052
 C-166293 : SEE DWG. C-166053
 C-166294 : SEE DWG. C-166054

		FINISH	MATERIAL	PARTNUMBER
CUSTOMER DRAWING		AMP		
		AMP-HOLLAND B.V. 's-Hertogenbosch, The Netherlands.		
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DR.	DATE	WIRE RANGE	NAME	
B.HOOIJ.	24-01-86	-	SOCKET/PIN, SIZE 20 DF, LOOSE PIECE.	
CHK.	DATE	INSUL. RANGE		
	<i>W. Kilburg</i> 6-2-86	-	REV. DATE	
APP.	DATE	SIZE	SHEET	DWG. No.
<i>B</i>	10.2.86	A4	1 of 1	C-166291÷166294
				REV. LTR.
				A