# AMD Xilinx - XC7K325T-1FFV900I 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 | 25475 |
| Number of Logic Elements/Cells | 326080 |
| Total RAM Bits | 16404480 |
| Number of I/O | 500 |
| Number of Gates | - |
| Voltage - Supply | 0.97V ~ 1.03V |
| Mounting Type | Surface Mount |
| Operating Temperature | -40°C ~ 100°C (TJ) |
| Package / Case | 900-BBGA, FCBGA |
| Supplier Device Package | 900-FCBGA (31x31) |
| Purchase URL | https://www.e-xfl.com/product-detail/xilinx/xc7k325t-1ffv900i |