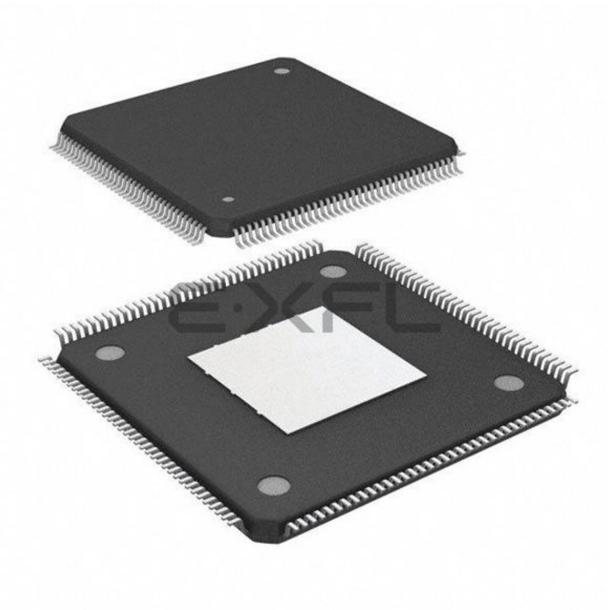
Intel - EP4CE10E22C8L Datasheet



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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 | 645 |
| Number of Logic Elements/Cells | 10320 |
| Total RAM Bits | 423936 |
| Number of I/O | 91 |
| Number of Gates | - |
| Voltage - Supply | 0.97V ~ 1.03V |
| Mounting Type | Surface Mount |
| Operating Temperature | 0°C ~ 85°C (TJ) |
| Package / Case | 144-LQFP Exposed Pad |
| Supplier Device Package | 144-EQFP (20x20) |
| Purchase URL | https://www.e-xfl.com/product-detail/intel/ep4ce10e22c8l |