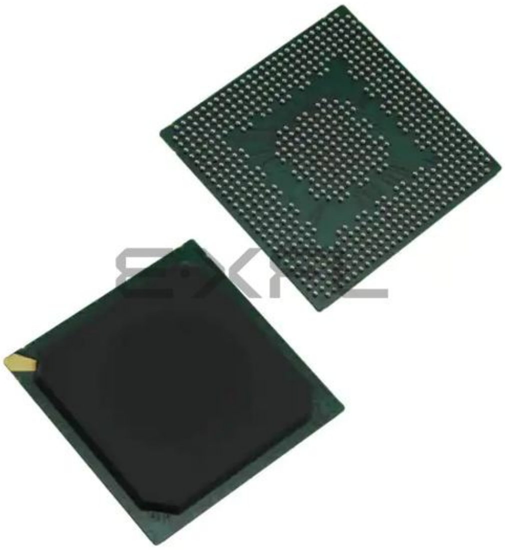

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## Understanding Embedded - Microprocessors

Embedded microprocessors are specialized computing chips designed to perform specific tasks within an embedded system. Unlike general-purpose microprocessors found in personal computers, embedded microprocessors are tailored for dedicated functions within larger systems, offering optimized performance, efficiency, and reliability. These microprocessors are integral to the operation of countless electronic devices, providing the computational power necessary for controlling processes, handling data, and managing communications.

## Applications of Embedded - Microprocessors

Embedded microprocessors are utilized across a broad spectrum of applications, making them indispensable in

| **Details** | |
|---|---|
| Product Status | Obsolete |
| Core Processor | PowerPC e300 |
| Number of Cores/Bus Width | 1 Core, 32-Bit |
| Speed | 400MHz |
| Co-Processors/DSP | Security; SEC |
| RAM Controllers | DDR |
| Graphics Acceleration | No |
| Display & Interface Controllers | - |
| Ethernet | 10/100/1000Mbps (2) |
| SATA | - |
| USB | USB 2.0 + PHY (2) |
| Voltage - I/O | 2.5V, 3.3V |
| Operating Temperature | 0°C ~ 105°C (TA) |
| Security Features | Cryptography, Random Number Generator |
| Package / Case | 620-BBGA Exposed Pad |
| Supplier Device Package | 620-HBGA (29x29) |
| Purchase URL | https://www.e-xfl.com/product-detail/nxp-semiconductors/kmpc8347evragdb |