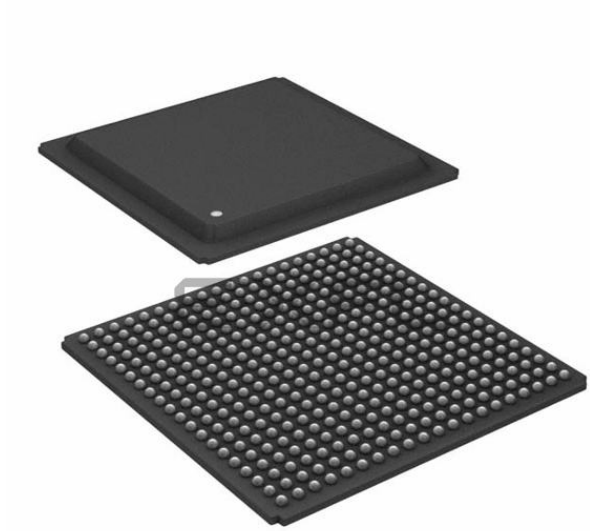

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## Understanding Embedded - DSP (Digital Signal Processors)

Embedded - DSP (Digital Signal Processors) are specialized microprocessors designed to perform complex mathematical computations on digital signals in real-time. Unlike general-purpose processors, DSPs are optimized for high-speed numeric processing tasks, making them ideal for applications that require efficient and precise manipulation of digital data. These processors are fundamental in converting and processing signals in various forms, including audio, video, and communication signals, ensuring that data is accurately interpreted and utilized in embedded systems.

## Applications of Embedded - DSP (Digital Signal Processors)

| Details | |
|---|---|
| Product Status | Obsolete |
| Type | Floating Point |
| Interface | Host Interface, Link Port, Serial Port |
| Clock Rate | 80MHz |
| Non-Volatile Memory | External |
| On-Chip RAM | 512kB |
| Voltage - I/O | 3.30V |
| Voltage - Core | 2.50V |
| Operating Temperature | 0°C ~ 85°C (TC) |
| Mounting Type | Surface Mount |
| Package / Case | 400-BBGA |
| Supplier Device Package | 400-PBGA (27x27) |
| Purchase URL | https://www.e-xfl.com/product-detail/analog-devices/adsp-21160mkb-80 |

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## REVISION HISTORY

**9/15—Rev. C to Rev. D**

Removed model ADSP-21160NKB-100 (no longer available) from Ordering Guide ..... 58