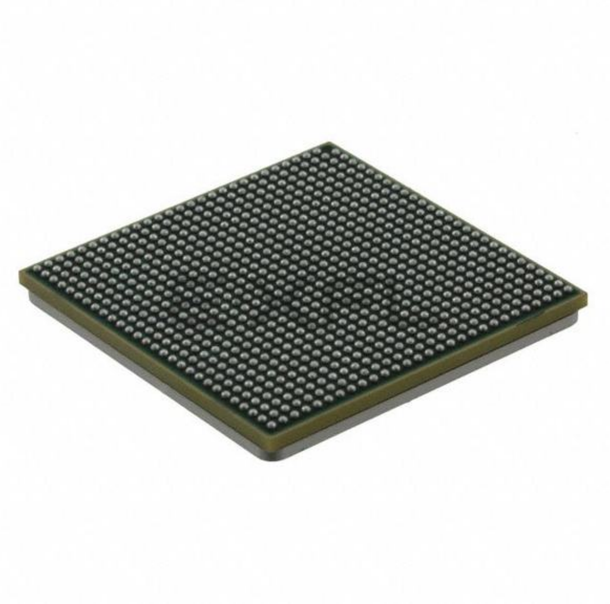

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Understanding Embedded - DSP (Digital Signal Processors)

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	SC3400 Core
Interface	EBI/EMI, Ethernet, I²C, PCI, Serial RapidIO, SPI, TDM, UART, UTOPIA
Clock Rate	800MHz
Non-Volatile Memory	ROM (96kB)
On-Chip RAM	10.5MB
Voltage - I/O	3.30V
Voltage - Core	1.00V
Operating Temperature	0°C ~ 105°C (TJ)
Mounting Type	Surface Mount
Package / Case	783-BBGA, FCBGA
Supplier Device Package	783-FCPBGA (29x29)
Purchase URL	https://www.e-xfl.com/product-detail/nxp-semiconductors/kmc8144svt800b