32 bit

TX03 Series

|Under Development| **TMPM320C1DFG**

144pin

Audio control microcontroller containing High-Speed USB host controller and SD host controller, enabling rapid database construction

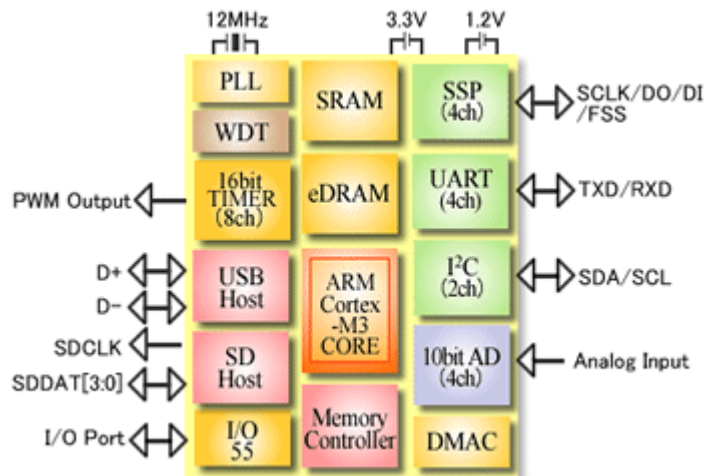## Features

● ARM Cortex™-M3 Core

·Operating voltage:
  Internal= 1.1 to 1.3 V
  I/O= 3.0 to 3.6 V
·Maximum Operating frequency:
  144 MHz (12 MHz×12 by PLL)
·Minimum instruction execution time:
  6.9 ns at 144 MHz operation

● Built-in Functions

·USB (high-speed) host controller	:	1 channel
·SD host controller	:	1 channel
·DMA controller	:	8 channels
·Memory controller	:	2 channels
·10-bit AD converter	:	4 channels
·16-bit timer/PWM	:	8 channels
·SSP (SPI/MicroWire mode)	:	4 channels
·UART	:	4 channels
·I^{2}C	:	2 channels
·Debug circuit (SWD)	:	1 channel
·Trace function (ETM)	:	1 channel

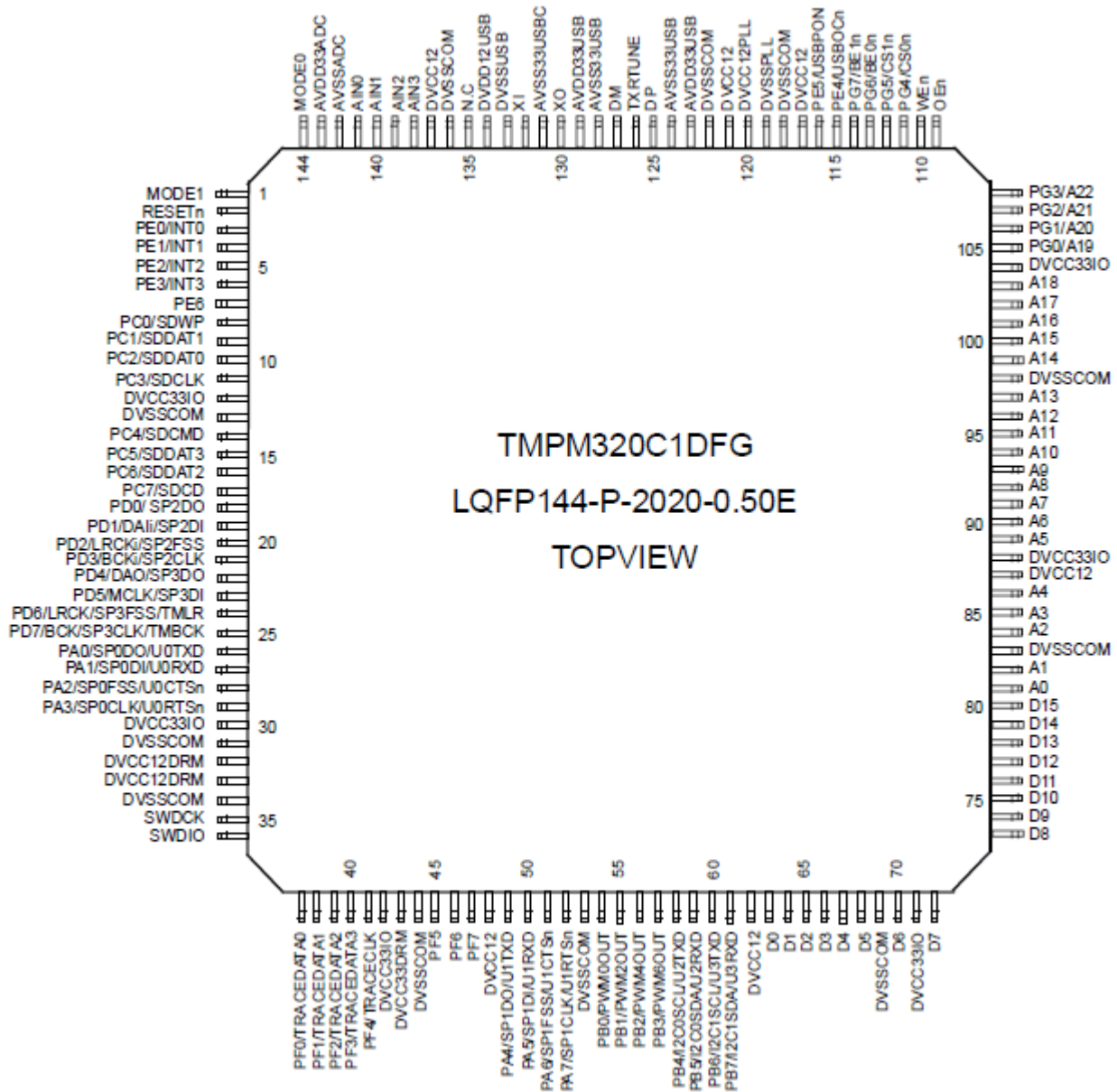### ● Memory Size

*Under development

Part number	SRAM	eDRAM
TMPM320C1DFG**	320 Kbytes	1 Mbyte

* SSP: Synchronous Serial Port
* SWD: Serial Wire Debug (ARM standard 2-pin interface)
* ETM: Embedded Trace Macrocell

› For further information about Toshiba microcomputers, please visit http://www.semicon.toshiba.co.jp/eng/product/micro/index.html

› Contact the Toshiba sales representative for information about RoHS compliance before you purchase any components.

❖ Pin Assignments

Package name   LQFP144-P-2020-0.50E

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