

Welcome to [E-XFL.COM](#)

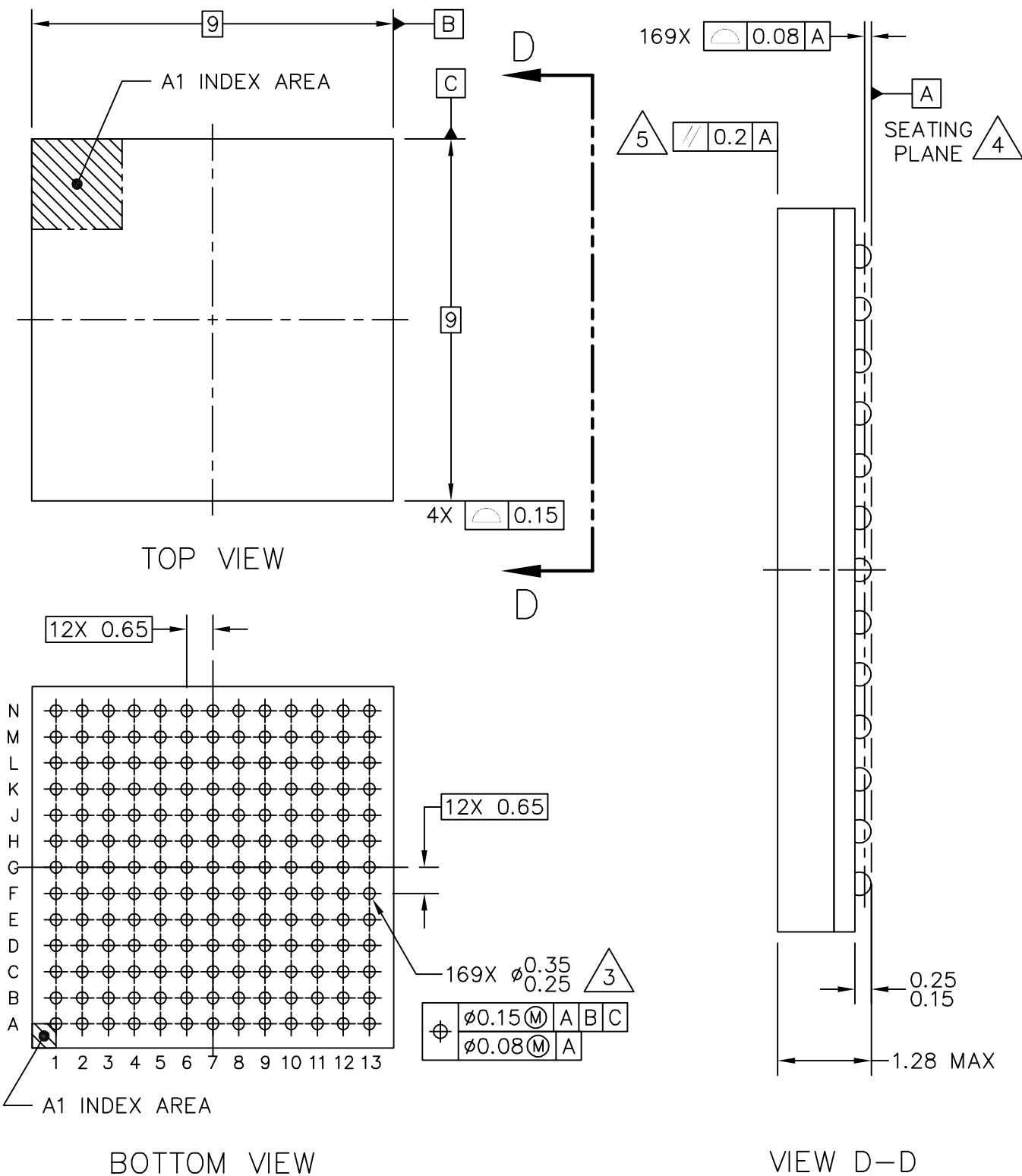
What is "[Embedded - Microcontrollers](#)"?

"[Embedded - Microcontrollers](#)" refer to small, integrated circuits designed to perform specific tasks within larger systems. These microcontrollers are essentially compact computers on a single chip, containing a processor core, memory, and programmable input/output peripherals. They are called "embedded" because they are embedded within electronic devices to control various functions, rather than serving as standalone computers. Microcontrollers are crucial in modern electronics, providing the intelligence and control needed for a wide range of applications.

Applications of "[Embedded - Microcontrollers](#)"

Details

Product Status	Active
Core Processor	ARM® Cortex®-M4
Core Size	32-Bit Single-Core
Speed	180MHz
Connectivity	CANbus, EBI/EMI, Ethernet, I ² C, IrDA, SD, SPI, UART/USART, USB, USB OTG
Peripherals	DMA, I ² S, LVD, POR, PWM, WDT
Number of I/O	116
Program Memory Size	2MB (2M x 8)
Program Memory Type	FLASH
EEPROM Size	-
RAM Size	256K x 8
Voltage - Supply (Vcc/Vdd)	1.71V ~ 3.6V
Data Converters	A/D 2x16b; D/A 2x12b
Oscillator Type	Internal
Operating Temperature	-40°C ~ 105°C (TA)
Mounting Type	Surface Mount
Package / Case	169-LFBGA
Supplier Device Package	169-MAPBGA (9x9)
Purchase URL	https://www.e-xfl.com/product-detail/nxp-semiconductors/mk65fn2m0vmi18



© FREESCALE SEMICONDUCTOR, INC. ALL RIGHTS RESERVED.	MECHANICAL OUTLINE	PRINT VERSION NOT TO SCALE
TITLE: MAPBGA, LOW PROFILE 9 X 9 X 1.15 PKG 0.65 MM PITCH, 169 I/O	DOCUMENT NO: 98ASA00628D REV: 0	
	STANDARD: NON-JEDEC	
	29 AUG 2013	



NOTES:

- 1. ALL DIMENSIONS IN MILLIMETERS.
- 2. DIMENSIONING AND TOLERANCING PER ASME Y14.5M–1994.
- 3. MAXIMUM SOLDER BALL DIAMETER MEASURED PARALLEL TO DATUM A.
- 4. DATUM A, THE SEATING PLANE, IS DETERMINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
- 5. PARALLELISM MEASUREMENT SHALL EXCLUDE ANY EFFECT OF MARK ON TOP SURFACE OF PACKAGE.

© FREESCALE SEMICONDUCTOR, INC. ALL RIGHTS RESERVED.	MECHANICAL OUTLINE	PRINT VERSION NOT TO SCALE
TITLE: MAPBGA, LOW PROFILE 9 X 9 X 1.15 PKG 0.65 MM PITCH, 169 I/O	DOCUMENT NO: 98ASA00628D REV: 0	
	STANDARD: NON–JEDEC	
	29 AUG 2013	