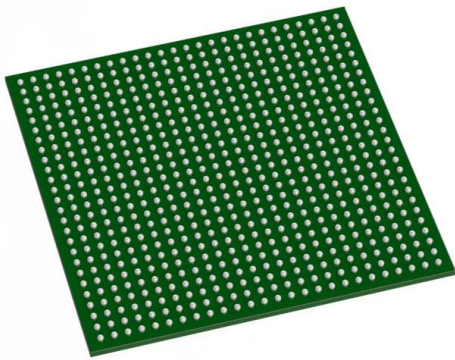


# M2S090TS-FG676 Datasheet

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DiGi Electronics Part Number	M2S090TS-FG676-DG
Manufacturer	<a href="#">Microchip Technology</a>
Manufacturer Product Number	M2S090TS-FG676
Description	IC SOC CORTEX-M3 166MHZ 676FBGA
Detailed Description	ARM® Cortex®-M3 System On Chip (SOC) IC SmartFusion®2 FPGA - 90K Logic Modules 166MHz 676-FBGA (27x27)

This model M2S090TS-FG676 is available at DiGi Electronics.

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## Purchase and inquiry

**Manufacturer Product Number:**

M2S090TS-FG676

**Series:**

SmartFusion®2

**Architecture:**

MCU, FPGA

**Flash Size:**

512KB

**Peripherals:**

DDR, PCIe, SERDES

**Speed:**

166MHz

**Operating Temperature:**

0°C ~ 85°C (TJ)

**Supplier Device Package:**

676-FBGA (27x27)

**Base Product Number:**

M2S090

**Manufacturer:**

Microchip Technology

**Product Status:**

Active

**Core Processor:**

ARM® Cortex®-M3

**RAM Size:**

64KB

**Connectivity:**

CANbus, Ethernet, I2C, SPI, UART/USART, USB

**Primary Attributes:**

FPGA - 90K Logic Modules

**Package / Case:**

676-BGA

**Number of I/O:**

425

## Environmental & Export classification

**RoHS Status:**

RoHS non-compliant

**REACH Status:**

REACH Unaffected

**HTSUS:**

8542.39.0001

**Moisture Sensitivity Level (MSL):**

3 (168 Hours)

**ECCN:**

3A991D

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