



Image may be representation.  
See specifications for product details.



## STM32F439IGT6

|                          |                                 |
|--------------------------|---------------------------------|
| Manufacturer Part Number | <b>STM32F439IGT6</b>            |
| Manufacturer             | <b>STMicroelectronics</b>       |
| Allelco Part Number      | 32D-STM32F439IGT6               |
| ECAD Model               | PCB Symbol, Footprint & 3D Mode |
| Parts Description        | IC MCU 32BIT 1MB FLASH 176LQFP  |
| Package                  | 176-LQFP                        |
| Data sheet               | STM32F439IGT6.pdf               |
| RoHs Status              | <b>ROHS3 Compliant</b>          |

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STM32F439IGT6 - STMicroelectronics.New Original in Stock. Download Linear Technology STM32F439IGT6 datasheet/specifications on AllelcoElec.com.  
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### Specifications

STM32F439IGT6 Tech Specifications  
STM32F439IGT6 - STMicroelectronics technical specifications, attributes, parameters

| Product Attribute          | Attribute Value   | Product Attribute     | Attribute Value   |
|----------------------------|---|-----------------------|---|
| Manufacturer               | STMicroelectronics  | Oscillator Type       | Internal  |
| Voltage - Supply (Vcc/Vdd) | 1.8V ~ 3.6V   | Operating Temperature | -40°C ~ 85°C (TA)   |
| Supplier Device Package    | 176-LQFP (24x24)  | Number of I/O         | 140   |
| Speed                      | 180MHz  | Mounting Type         | Surface Mount   |
| Series                     | STM32F4   | EEPROM Size           | -   |
| RAM Size                   | 256K x 8  | Data Converters       | A/D 24x12b; D/A 2x12b   |
| Program Memory Type        | FLASH   | Core Size             | 32-Bit Single-Core  |
| Program Memory Size        | 1MB (1M x 8)  | Core Processor        | ARM® Cortex®-M4   |
| Peripherals                | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT | Connectivity          | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG |
| Package / Case             | 176-LQFP  | Base Product Number   | STM32F439   |
| Package                    | Tray  |                       |   |

### Parts with Similar Specifications

The three parts on the right have similar specifications to STMicroelectronics STM32F439IGT6

| Product Attribute          |   |   |   |   |
|----------------------------|---|---|---|---|
| Part Number                | STM32F439IGT6   | <b>STM32F437ZIT7</b>  | <b>STM32F439ZGY6TR</b>  | <b>STM32F437IIT7</b>  |
| Manufacturer               | STMicroelectronics  | STMicroelectronics  | STMicroelectronics  | STMicroelectronics  |
| Voltage - Supply (Vcc/Vdd) | 1.8V ~ 3.6V   | 1.8V ~ 3.6V   | 1.8V ~ 3.6V   | 1.8V ~ 3.6V   |
| Base Product Number        | STM32F439   | STM32F437   | STM32F439   | STM32F437   |
| RAM Size                   | 256K x 8  | 256K x 8  | 256K x 8  | 256K x 8  |
| Supplier Device Package    | 176-LQFP (24x24)  | 144-LQFP (20x20)  | 143-WLCSP (4.52x5.55)   | 176-LQFP (24x24)  |
| Peripherals                | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT                   | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT                   | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT                   | Brown-out Detect/Reset, DMA, I <sup>2</sup> S, LCD, POR, PWM, WDT                   |
| Number of I/O              | 140   | 114   | 114   | 140   |
| Core Processor             | ARM® Cortex®-M4   | ARM® Cortex®-M4   | ARM® Cortex®-M4   | ARM® Cortex®-M4   |
| Package / Case             | 176-LQFP  | 144-LQFP  | 143-UFBGA, WLCSP  | 176-LQFP  |
| Data Converters            | A/D 24x12b; D/A 2x12b   | A/D 24x12b; D/A 2x12b   | A/D 24x12b; D/A 2x12b   | A/D 24x12b; D/A 2x12b   |
| Operating Temperature      | -40°C ~ 85°C (TA)   | -40°C ~ 105°C (TA)  | -40°C ~ 85°C (TA)   | -40°C ~ 105°C (TA)  |
| Core Size                  | 32-Bit Single-Core  | 32-Bit Single-Core  | 32-Bit Single-Core  | 32-Bit Single-Core  |
| Program Memory Type        | FLASH   | FLASH   | FLASH   | FLASH   |
| Package                    | Tray  | Tray  | Tape & Reel (TR)  | Tray  |
| Mounting Type              | Surface Mount   | Surface Mount   | Surface Mount   | Surface Mount   |
| Oscillator Type            | Internal  | Internal  | Internal  | Internal  |
| EEPROM Size                | -   | -   | -   | -   |
| Series                     | STM32F4   | STM32F4   | STM32F4   | STM32F4   |
| Program Memory Size        | 1MB (1M x 8)  | 2MB (2M x 8)  | 1MB (1M x 8)  | 2MB (2M x 8)  |
| Connectivity               | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG | CANbus, EBI/EMI, Ethernet, I <sup>2</sup> C, IrDA, LINbus, SPI, UART/USART, USB OTG |
| Speed                      | 180MHz  | 180MHz  | 180MHz  | 180MHz  |

### STM32F439IGT6 Datasheet PDF

Download STM32F439IGT6 pdf datasheets and STMicroelectronics documentation for STM32F439IGT6 - STMicroelectronics.

#### PCN Packaging



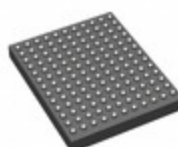


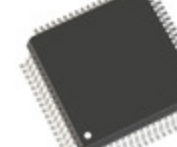

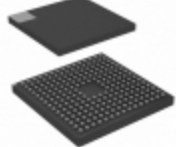
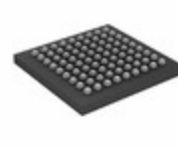

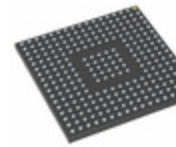
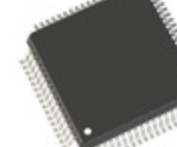








#### PCN Design/Specification

PCN Assembly/Origin

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|---|---|---|--|---|---|
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|    |    |    |    |    |    |
| <b>STM32F439IIT6</b><br>STMicroelectronics<br>IC MCU 32BIT 2MB FLASH 176LQFP        | <b>STM32F439NIH6</b><br>STMicroelectronics<br>IC MCU 32BIT 2MB FLASH 216TFBGA       | <b>STM32F446MCY6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 81WLCSP    | <b>STM32F446RCT6</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP        | <b>STM32F437IIH6TR</b><br>STMicroelectronics<br>IC MCU 32BIT 2MB FLASH 176UFBGA       | <b>STM32F446RCT7TR</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP       |
|  |  |  |  |  |  |
| <b>STM32F437ZGT6</b><br>STMicroelectronics<br>IC MCU 32BIT 1MB FLASH 144LQFP        | <b>STM32F437VGT6</b><br>STMicroelectronics<br>IC MCU 32BIT 1MB FLASH 100LQFP        | <b>STM32F446RCT7</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 64LQFP       | <b>STM32F439BIT6</b><br>STMicroelectronics<br>IC MCU 32BIT 2MB FLASH 208LQFP         | <b>STM32F437VIT6</b><br>STMicroelectronics<br>IC MCU 32BIT 2MB FLASH 100LQFP          | <b>STM32F446VCT6</b><br>STMicroelectronics<br>IC MCU 32BIT 256KB FLASH 100LQFP        |

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In-stock items can be shipped within 24 hours. Some parts will be arranged for delivery within 1-2 days from the date all items arrive at our warehouse. And Allelco ships order once a day at about 17:00, except Sunday. Once the goods are shipped, the estimated delivery time depends on the shipping methods and Delivery destination. The table below shows are the logistic time for some common countries.

Delivery Cost

- > Use your express account for shipment if you have one.
  - > Use our account for the shipment. Refer to the table below for the approximate charges.
- (Different time frame / countries / package size has different price.)

Delivery Method

- > Global Common Shipment by DHL / UPS / FedEx / TNT / EMS / SF we support.
- > Others more shipping ways, please get in touch with your customer manager.

| Common Countries Logistic Time Reference |                |                    |
|--|----------------|--------------------|
| Region                                   | Country        | Logistic Time(Day) |
| America                                  | United States  | 5                  |
|  | Brazil         | 7                  |
| Europe                                   | Germany        | 5                  |
|  | United Kingdom | 4                  |
|  | Italy          | 5                  |
| Oceania                                  | Australia      | 6                  |
|  | New Zealand    | 7                  |
| Asia                                     | India          | 6                  |
|  | Japan          | 7                  |
| Middle East                              | Israel         | 6                  |

| DHL & FedEx Shipment Charges Reference |                      |
|--|----------------------|
| Shipment charges(KG)                   | Reference DHL(USD\$) |
| 0.00kg-1.00kg                          | USD\$60.00           |
| 1.00kg-2.00kg                          | USD\$70.00           |
| 2.00kg-3.00kg                          | USD\$80.00           |




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