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N25Q512A83G12H0F

**SPECS** 

SIM MODELS & **SOFTWARE** 

**CERTIFICATES** 

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PARTS WITH THE SAME DATA SHEET (15)

WHERE TO BUY

Data Sheets (1)

**Data Sheet** 

512Mb, 3V, Multiple I/O Serial Flash Memory

N25Q is a high-performance multiple input/output, 512Mb, 3V, serial Flash memory device.

NOR Flash

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Serial NOR Flash DOWNLOAD

Automotive

N25Q

File Type: PDF

**Updated:** 01/2015

Specs

Orderable Parts for: N25Q512A83G12H0F

**SEE ALL SERIAL NOR FLASH PARTS** 

		Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
١	N25Q512A83G12H0F	Production	Tape & Reel	N/A	N/A	N/A	No		N/A

## **Detailed Specifications**

Density	512Mb	Part Status	Production	Width	x1/x2/x4	Voltage	2.7V-3.6V
Package	T-PBGA	Pin Count	24-ball	Speed	108 MHz	RoHS	Yes
Туре	Multi I/O	Op Temp	-40C to +85C	Applications	Automotive	Part Family	N25Q
Media	Tape & Reel						

# Sim Models & Software

## Software

**Software Driver** 

#### MT25Q (128Mb, 256Mb, 512Mb, 1Gb, 2Gb) General Low-Level Driver (ZIP)

General low-level driver for MT25Q serial NOR. Download the technical note for this driver here.

Automotive **Embedded Memory Solutions** MT25Q NOR Flash See More Tags

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File Type: ZIP

**Updated:** 06/14/2016

**Software Driver** 

## N25Q (16Mb, 32Mb, 64Mb, 128Mb, 256Mb, 512Mb, 1Gb) General Low-Level Driver v2.1

General low-level driver for N25Q serial NOR. Download the technical note for this driver here.

See More Tags

**Embedded Memory Solutions** 

**Automotive** 

N250 NOR Flash

File Type: ZIP

**Updated:** 08/31/2015

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**Software Driver** 



#### **Serialize Function for the SPI Controller (ZIP)**

Provides the serialize function for the serial peripheral interface (SPI) controller for Micron's serial Flash devices (NAND, NOR, and PCM).

File Type: ZIP

**Updated: 12/28/2011** 

Serial NOR Flash

NOR Flash

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**Software Driver** 



## S33 (16Mb, 32Mb, 64Mb) General Low-Level Driver (ZIP)

General low-level driver for S33 serial NOR.

Serial NOR Flash

NOR Flash

File Type: ZIP

**Updated: 05/08/2006** 

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# **RoHS** Certificates

**RoHS Certificates** 

### **RoHS Certificate of Compliance (PDF)**

N25Q512A83G12H0F

Part-specific certification of how this product meets the requirements of the current DIRECTIVE 2002/95/EC, a.k.a. Restriction of Hazardous Substances (RoHS) Directive.

File Type: (PDF) Updated: 10/2016

#### **RoHS Certificates**

#### **China RoHS Certificate (PDF)**

N25Q512A83G12H0F

Part-specific certification as required by China's Management Methods for Controlling Pollution by Electronic Information Products.

File Type: (PDF)

**Updated:** 10/2016

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# Documentation & Support

See All Serial NOR Flash Documentation

## **Technical Notes**

**SEARCH (35) SERIAL NOR FLASH TECHNICAL NOTES** 

#### **Technical Notes**

#### TN-25-05: N25Q and MT25Q Serial Flash Stacked Devices (PDF)

Automotive NOR Flash Serial NOR Flash

(TN-25-05) This technical note describes the features of stacked devices for N25Q and MT25Q. These devices are memory with two or more dies in the same package.

File Type: PDF

**Updated:** 10/24/2016

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#### **Technical Notes**

#### TN-25-31: Migrating N25Q 64Mb Standard to Enhanced - Serial NOR Flash (PDF)

Automotive Embedded Memory Solutions MT25Q N25Q See More Tags

(TN-25-31) This technical note provides information to help users to migrate from a standard configuration to an enhanced program and erase speed configuration of the Micron Flash memory N25Q 64Mb device.

**File Type:** PDF **Updated:** 09/28/2016

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#### **Technical Notes**

## TN-25-01: Migrating from Micron's N25Q to Micron's MT25Q (PDF)

NOR Flash Serial NOR Flash

(TN-25-01) This technical note describes the process for converting a system design from the Micron N25Q Flash memory device to the Micron MT25Q Flash memory device.

File Type: PDF

**Updated:** 09/02/2016

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## TN-25-09: Layout Guidelines - Serial NOR Flash (PDF)

(TN-25-09) This technical note provides PCB designers basic guidelines for optimizing signal layout and power supply lines in Micron's Serial NOR Flash device to prevent signal integrity problems.

File Type: PDF

**Updated:** 07/11/2016

Automotive Embedded Memory Solutions MT25Q N25Q See More Tags

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#### **Technical Notes**

#### TN-12-30: NOR Flash Cycling Endurance and Data Retention (PDF)

(TN-12-30) This technical note defines the industry standards for this testing, Micron's NOR Flash testing methodology, and the two key metrics used to measure NOR device failure: cycling endurance and data retention.

File Type: PDF

**Updated:** 09/18/2015

XTRMFlash Automotive Embedded Memory Solutions NOR Flash See More Tags

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**SEARCH (35) SERIAL NOR FLASH TECHNICAL NOTES** 

# Parts with the same Data Sheet (15)

	<b>12A83G12H0F</b> Current )	N25Q512A13G1240E	N25Q512A13G1240F	N25Q512A13GSF40F		
Part Status	Production	Production	Production	Production		
Density	512Mb	512Mb	512Mb	512Mb		
Width	x1/x2/x4	x1/x2/x4	x1/x2/x4	x1/x2/x4		
Voltage	2.7V-3.6V	2.7V-3.6V	2.7V-3.6V	2.7V-3.6V		
Package	T-PBGA	T-PBGA	T-PBGA	SO16 Wide		
Pin Count	24-ball	24-ball	24-ball	16-pin		
Speed	108 MHz	108 MHz	108 MHz	108 MHz		
RoHS	Yes	Yes	Yes	Yes		
Туре	Multi I/O	Multi I/O	Multi I/O	Multi I/O		
Op Temp	-40C to +85C	-40C to +85C	-40C to +85C	-40C to +85C		
Applications	Automotive	Embedded	Embedded	Embedded		
ownloaded from Arrow.com.		N25Q	N25Q	N25Q		

Media Tape & Reel Tray Tape & Reel Tape & Reel

# Where to Buy

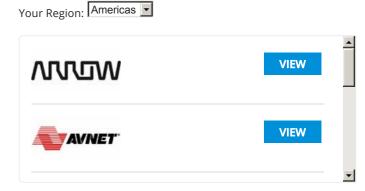
#### Orderable Parts

	Status	Media	FBGA Code	SPD Data	Chipset Validation	PLP	Start Date	Alternative Part
N25Q512A83G12H0F	Production	Tape & Reel	N/A	N/A	N/A	No		N/A

## Contact Your Sales Rep

CONTACT A REP

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