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N25Q512A83G12H0F

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DATA SHEETS (1)	SPECS	SIM MODELS & SOFTWARE	ROHS CERTIFICATES	DOCUMENTATION & SUPPORT	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.

Automotive
Embedded Memory Solutions
N25Q
NOR Flash
Serial NOR Flash

File Type: PDF   **Updated:** 01/2015

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Specs

Orderable Parts for: N25Q512A83G12H0F

SEE ALL SERIAL NOR FLASH 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

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
Type	Multi I/O	**Op Temp**	-40C to +85C	**Applications**	Automotive	**Part Family**	N25Q
Media	Tape & Reel						

Sim Models & Software

Software

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.

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MT25Q
NOR Flash
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File Type: ZIP   **Updated:** 06/14/2016

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Software Driver

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

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

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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).

NOR Flash
Serial NOR Flash

File Type: ZIP   **Updated:** 12/28/2011

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Software Driver 🔓

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

General low-level driver for S33 serial NOR.

NOR Flash
Serial NOR Flash

File Type: ZIP   **Updated:** 05/08/2006

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RoHS Certificates

RoHS Certificates

RoHS Certificate of Compliance (PDF)

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.

N25Q512A83G12H0F

File Type: (PDF)   **Updated:** 10/2016

China RoHS Certificate (PDF)

N25Q512A83G12H0F

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

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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   DOWNLOAD

Technical Notes

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

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MT25Q
N25Q
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(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   DOWNLOAD

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   DOWNLOAD

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.

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File Type: PDF   **Updated:** 07/11/2016

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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.

XTRMFlash
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SEARCH (35) SERIAL NOR FLASH TECHNICAL NOTES

Parts with the same Data Sheet (15)

	N25Q512A83G12H0F (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
Type	**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**
	N25Q	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

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