

# Lexar

## ENTERPRISE

### Quad SPI / xSPI NOR Flash

Product Brief



#### Capacities

**Quad SPI NOR Flash:**  
**64Mb, 128Mb, 256Mb**

**xSPI NOR Flash:**  
**256Mb, 512Mb**

#### Advanced Features

- 8K-byte security OTP with OTP lock
- 128-bit Unique ID for each device
- Serial Flash Discoverable Parameters (SFDP)
- JEDEC electronic identification
- Volatile and non-volatile status register bits
- Top/bottom block protection
- Flexible architecture

#### Applications



PC Motherboard



Wearables



Smart Speakers



Industrial Internet Protocol  
Cameras (IPC)



Video Surveillance

#### Fast, Reliable, Error-free Processing

When you need error-free computing from the system boot to shut down, the Lexar Enterprise SPI / xSPI NOR Flash provides fast, reliable memory for a wide variety of devices. Built to maintain lasting performance, the SPI / xSPI NOR Flash is rated for 100K program / erase cycles and is designed for 20-year data retention for years to come.

#### Key Benefits

##### Standard, Dual and Quad SPI Speeds

Standard/Dual transfer clock frequency is 166MHz and Quad SPI is 200MHz. DTR Quad IO data transfer up to 200MB/s with DQS.

##### Standard and Octal xSPI NOR Speeds

SPI mode transfer clock frequency is 166MHz and OPI mode is 200MHz. DTR OPI IO data transfer up to 400MB/s with DQS.

#### Data Integrity Check

Error correction code (ECC) helps make sure the SPI / xSPI NOR Flash can correct itself, while cyclic redundancy check (CRC) detects accidental changes internally.

#### Lasting Data Retention

A minimum of 100,000 program / erase cycles and 20-year data retention helps ensure data is always safely stored and ready to access for decades.

## Specifications—SPI NOR Flash

Part Number	Capacity	I/O Type	Operating Voltage	Chip Package	Operating Temperature	Size	Packaging
F25UQD256M-OWT	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tray
F25UQD256M-OWR	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tape & Reel
F25UQD256M-OWE	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tube
F25UQD256M-OAT	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tray
F25UQD256M-OAR	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tape & Reel
F25UQD256M-OAE	256GB	x1 x2 x4	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tube
F25UQD256M-VWT	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +85°C	6mm x 5mm	Tray
F25UQD256M-VWR	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +85°C	6mm x 5mm	Tape & Reel
F25UQD256M-VAT	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +105°C	6mm x 5mm	Tray
F25UQD256M-VAR	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +105°C	6mm x 5mm	Tape & Reel
F25UQD256M-WWT	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +85°C	6mm x 5mm	Tray
F25UQD256M-WWR	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +85°C	6mm x 5mm	Tape & Reel
F25UQD256M-WAT	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +105°C	6mm x 5mm	Tray
F25UQD256M-WAR	256GB	x1 x2 x4	1.65V ~ 2V	8-WSON	-40°C to +105°C	6mm x 5mm	Tape & Reel
F25UQD256M-CWT	256GB	x1 x2 x4	1.65V ~ 2V	BGA24	-40°C to +85°C	6mm x 5mm	Tray
F25UQD256M-CAT	256GB	x1 x2 x4	1.65V ~ 2V	BGA24	-40°C to +105°C	6mm x 5mm	Tape & Reel

## Specifications—xSPI NOR Flash

Part Number	Capacity	I/O Type	Operating Voltage	Chip Package	Operating Temperature	Size	Packaging
F25UXD256M-OWT	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tray
F25UXD256M-OWR	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tape & Reel
F25UXD256M-OWE	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +85°C	10.3mm x 10.3mm	Tube
F25UXD256M-OAT	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tray
F25UXD256M-OAR	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tape & Reel
F25UXD256M-OAE	256GB	x1 x8	1.65V ~ 2V	SOP16	-40°C to +105°C	10.3mm x 10.3mm	Tube
F25UXD256M-CWT	256GB	x1 x8	1.65V ~ 2V	BGA24	-40°C to +85°C	8mm x 6mm	Tray
F25UXD256M-CWR	256GB	x1 x8	1.65V ~ 2V	BGA24	-40°C to +85°C	8mm x 6mm	Tape & Reel
F25UXD256M-CAT	256GB	x1 x8	1.65V ~ 2V	BGA24	-40°C to +105°C	8mm x 6mm	Tray
F25UXD256M-CAR	256GB	x1 x8	1.65V ~ 2V	BGA24	-40°C to +105°C	8mm x 6mm	Tape & Reel

\*Data based on internal testing. Actual performance may vary due to equipment differences.

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