

Industrial microSD card



- ▶ Industrial microSD cards from Western Digital
- ▶ Extreme endurance
- ▶ Health Status Monitoring allowing proactive maintenance
- ▶ Approved for Bosch surveillance cameras
- ▶ 5-year warranty

Industrial microSD cards from Western Digital that deliver endurance, reliability, extended temperature range, and longevity.

Designed and tested to withstand harsh environmental conditions. The Industrial microSD cards take advantage of a powerful set of features available in the Industrial series: Health Status Monitoring for proactive maintenance, automatic read refresh to ensure data integrity, and host lock to enable data privacy. Fast read and write performance enables high bit-rate video streams for demanding imaging applications such as enterprise video surveillance.

The Industrial microSD cards come with an extended 5-year warranty. If the endurance limit of the cards is reached before the end of the 5-year period, the warranty extension expires. The endurance limits of the Industrial microSD cards are:

- MSD-064G: 32 TBW
- MSD-128G: 64 TBW
- MSD-256G: 125 TBW

Functions

Compatible with Bosch cameras for local recording

The microSD cards are compatible with all Bosch cameras with an SD card slot for local recording, including support for Health Status Monitoring.

Edge recording

Edge recording eliminates the need to have on-site servers, NVRs, as video storage is decentralized. This function can also be setup as a secondary system that works along with centralized recording. Industrial microSD cards integrate advanced edge recording, providing a reliable storage solution, by combining the following functions:

- Pre-alarm recording in RAM reduces write cycles on the microSD card, extending the lifetime significantly
- Industrial microSD cards support allows for extreme lifetime
- Health Status Monitoring support to be able to send a Lifespan alarm being able to do proactive maintenance

Regulatory information

| Standard | Type |
|---------------|---|
| Emissions | EN 55032: 2015 Class B |
| Environmental | RoHS EU: 2011/65/EU (as amended by Directive (EU) 2015/863) EMC EU: 2014/30/EU EN 55024: 2010 |

Represented by:

Europe, Middle East, Africa:
Bosch Security Systems B.V.
P.O. Box 80002
5600 JB Eindhoven, The Netherlands

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Platz 1
D-70839 Gerlingen

North America:
Bosch Security Systems, LLC
130 Perinton Parkway
Fairport, New York, 14450, USA

Asia-Pacific:
Robert Bosch (SEA) Pte Ltd, Security Systems
11 Bishan Street 21
Singapore 573943

Industrial microSD card

| Standard | Type |
|----------|---|
| Immunity | EN 61000-4-2: 2009 |
| Marks | CE, UKCA, C-tick, FCC, EAC, REACH, WEEE |

Technical specifications

Storage

| | |
|------------------------|---|
| Memory card capacity * | MSD-064G: 64 GB MSD-128G: 128 GB MSD-256G: 256 GB |
|------------------------|---|

*1 GB equals 1 billion bytes. Actual user capacity may be less depending on operating environment.

Performance

| | |
|------------------------|---|
| Interface | SD6.0 UHS-I 104 |
| Sequential write speed | 50 MB/s |
| Sequential read speed | 100 MB/s |
| Endurance | MSD-064G: up to 192 TBW MSD-128G: up to 384 TBW MSD-256G: up to 768 TBW |
| Speed class | 10, U1/U3, V10/V30 |

Functionality

| | |
|-----------------------|--|
| Proactive maintenance | Health Status Monitoring (CPP4, CPP6, CPP7, CPP7.3, CPP14) |
| Data retention | 10 years data retention at 55 °C for fresh devices |

Mechanical

| | |
|----------------------------|----------------------|
| Dimension (H x W x D) (mm) | 15 mm x 11 mm x 1 mm |
|----------------------------|----------------------|

| | |
|------------|--------|
| Weight (g) | 0.25 g |
| Color | White |

Environmental

| | |
|----------------------------|-----------------|
| Operating temperature (°C) | -25 °C - 85 °C |
| Operating temperature (°F) | -13 °F - 185 °F |

Ordering information

MSD-064G IP SECURITY MICROSD CARD 64GB
64 GB industrial microSD card with health status monitoring
Order number **MSD-064G**

MSD-128G IP SECURITY MICROSD CARD 128GB
128 GB industrial microSD card with health status monitoring
Order number **MSD-128G**

MSD-256G IP SECURITY MICROSD CARD 256GB
256 GB industrial microSD card with health status monitoring
Order number **MSD-256G**

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