

# MEMXPRO SATA Module EM31 Series

Budget-friendly, industrial design



## Features

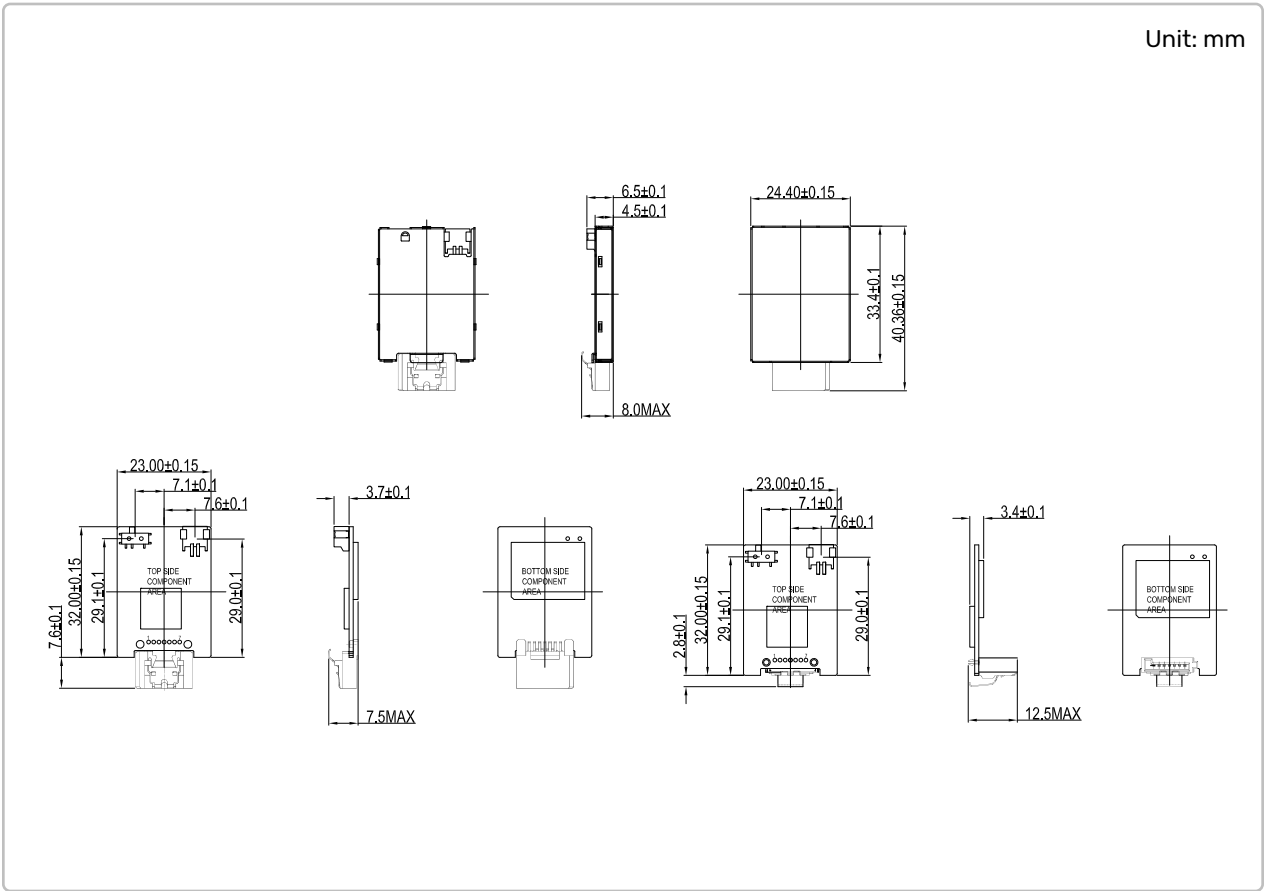
- 7-pin connector design
- MLC, DRAM-less, up to 64GB capacity
- Hardware write protection
- Commercial/extended/wide temp. solutions
- Built-in ECC and OCP/OVP
- NCQ/TRIM/SMART support
- mSMART storage device monitoring

## Specification

| Product Model                 | SATA Module EM31                  |                      |                        |
|-------------------------------|-----------------------------------|----------------------|------------------------|
| Interface                     | SATA III                          |                      |                        |
| Form Factor                   | Vertical, housing                 | Vertical, no housing | Horizontal, no housing |
| Flash Type                    | MLC                               |                      |                        |
| Max. Channel                  | 2                                 |                      |                        |
| Density                       | 16GB-64GB                         |                      |                        |
| Sequential R/W (MB/sec, max.) | 348/101                           |                      |                        |
| Operating Temperature         | 0°C~+70°C/-25°C~+85°C/-40°C~+85°C |                      |                        |
| Max. Power Consumption        | 1.25W (5Vx250mA)                  |                      |                        |
| Dimension (L x W x H/mm)      | 40.36x24.4x8.0                    | 39.6x23.0x7.5        | 34.8x23.0x12.5         |
| Operating Voltage             | 5V±5%                             |                      |                        |
| Storage Temperature           | -55°C~+95°C                       |                      |                        |
| External DRAM Buffer          | N/A                               |                      |                        |
| Thermal Sensor                | ✓                                 |                      |                        |
| DEVSLP Mode                   | N/A                               |                      |                        |
| ATA Security                  | ✓                                 |                      |                        |
| S.M.A.R.T.                    | ✓                                 |                      |                        |
| TRIM                          | ✓                                 |                      |                        |
| Vibration                     | 20G (7~2KHz)                      |                      |                        |
| Shock Resistance              | 1500G@0.5ms                       |                      |                        |
| MTBF                          | >3 million hours                  |                      |                        |

# Dimensions

Unit: mm



## Ordering Information

### SATA Module EM31 (Vertical, housing, write protect)

| Capacity | Commercial (0°C–70°C) | Extended (-25°C–85°C) | Industrial (-40°C~+85°C) |
|----------|-----------------------|-----------------------|--------------------------|
| 16GB     | FEDV1-16GMMS4X1C1W    | FEDV1-16GMMS4X1E1W    | FEDV1-16GMMS4X1W1W       |
| 32GB     | FEDV1-32GTMS4X2C1W    | FEDV1-32GTMS4X2E1W    | FEDV1-32GTMS4X2W1W       |
| 64GB     | FEDV1-64GTMS4X2C1W    | FEDV1-64GTMS4X2E1W    | FEDV1-64GTMS4X2W1W       |

### SATA Module EM31 (Vertical, no housing , write protect)

| Capacity | Commercial (0°C–70°C) | Extended (-25°C–85°C) | Industrial (-40°C~+85°C) |
|----------|-----------------------|-----------------------|--------------------------|
| 16GB     | FEDV0-16GMMS4X1C1W    | FEDV0-16GMMS4X1E1W    | FEDV0-16GMMS4X1W1W       |
| 32GB     | FEDV0-32GTMS4X2C1W    | FEDV0-32GTMS4X2E1W    | FEDV0-32GTMS4X2W1W       |
| 64GB     | FEDV0-64GTMS4X2C1W    | FEDV0-64GTMS4X2E1W    | FEDV0-64GTMS4X2W1W       |

### SATA Module EM31 (Horizontal, no housing , write protect)

| Capacity | Commercial (0°C–70°C) | Extended (-25°C–85°C) | Industrial (-40°C~+85°C) |
|----------|-----------------------|-----------------------|--------------------------|
| 16GB     | FEDH0-16GMMS4X1C1W    | FEDH0-16GMMS4X1E1W    | FEDH0-16GMMS4X1W1W       |
| 32GB     | FEDH0-32GTMS4X2C1W    | FEDH0-32GTMS4X2E1W    | FEDH0-32GTMS4X2W1W       |
| 64GB     | FEDH0-64GTMS4X2C1W    | FEDH0-64GTMS4X2E1W    | FEDH0-64GTMS4X2W1W       |