

# Edge Gateway

## PRODUCT SPECIFICATION V2.3

Balanced quad-core performance for standard industrial deployments. Dual Ethernet for network redundancy, robust I/O for integration with existing SCADA/BMS systems. Best value for production fleets.



## HARDWARE SPECIFICATIONS\*

| PARAMETER   | EDGE                       |
|-------------|----------------------------|
| CPU         | Quad A53 1.8GHz + M4       |
| RAM         | 4 GB LPDDR4                |
| Storage     | 32 GB eMMC + microSD       |
| Ethernet    | 2x GbE / (PoE Optional)    |
| Wireless    | WiFi 6 / BT 5.1 (Optional) |
| USB         | 3x USB 3.0                 |
| Display     | USB Micro                  |
| Serial      | RS232 / RS485 / CAN        |
| Form Factor | 112x84x25 mm               |

\*Features subject to change.

## ELECTRICAL CHARACTERISTICS

|                   |                                       |
|-------------------|---------------------------------------|
| <b>Power</b>      | Consumption 2-7W typical              |
| <b>Input</b>      | 8-36v DC or PoE 802.3af/at (Optional) |
| <b>Efficiency</b> | Optimized for 24/7 edge operation     |

## MECHANICAL & ENVIRONMENTAL

|                       |                            |
|-----------------------|----------------------------|
| <b>Enclosure</b>      | Fanless aluminum IP54-65   |
| <b>Mounting</b>       | DIN rail / wall mount      |
| <b>Operating Temp</b> | -40°C to +80°C             |
| <b>Humidity</b>       | 10-90% RH (non-condensing) |
| <b>MTTF</b>           | 200,000 hours              |

## SOFTWARE & DEPLOYMENT

|                         |  |
|-------------------------|--|
| <b>Operating System</b> | BalenaOS with fleet provisioning and OTA updates     |
| <b>Deployment</b>       | Auto-join via Ethernet/PoE, zero-touch configuration |
| <b>Management</b>       | Scalable to thousands of devices via balenaCloud     |

## COMPLIANCE & CERTIFICATIONS

|               |   |
|---------------|---|
| <b>FCC</b>    | Class B / CE                              |
| <b>EMC</b>    | EN 55032/5, EN 61000-6-2,<br>EN 61000-6-3 |
| <b>Safety</b> | EN/UL/IEC 62368-1                         |