

# DR-DLU-24 V2 | Product Data Sheet v1.0

## Universal Connectivity & Edge Intelligence

The Dot Link Unit is a rugged, high-performance telematics gateway engineered to transform any machine into an intelligent, data-driven asset.

Driven by a high-performance **Dual-Core ARM** processor with an integrated **NPU**, it can execute complex control logic independently of cellular networks. Built-in **multi-protocol I/O**, multi GNSS positioning, and 4G SIM service enable seamless telemetry and precision tracking.

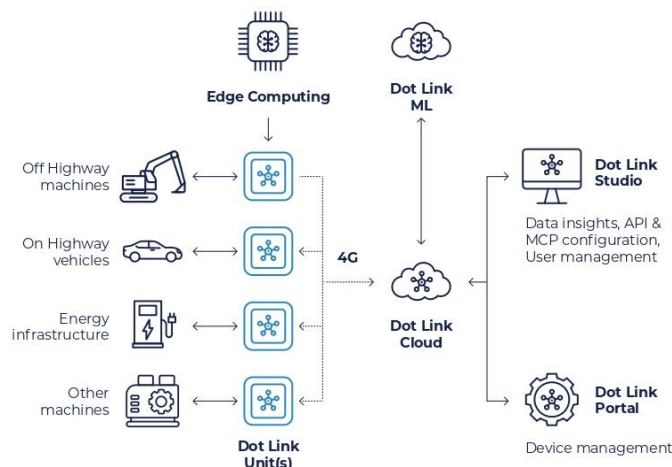
Assembled in the Netherlands and hosted exclusively within **European** data centres, the Dot Link Unit combines up to **IP6K9K** durability with **NIS2** and **CRA** pre-compliance, delivering a secure, future-proof backbone for OEMs, software platforms, and deep-tech innovators.



## Core Features

- Engineered for Off-Highway, automotive, energy infrastructure, maritime or industrial markets
- Dual-Core ARM processor with NPU
- Communicate with sensors and control systems through CAN bus, RS232/RS485, and Digital/Analog I/Os
- Secure cloud connectivity over 4G/LTE
- Location determination based on GNSS
- Custom embedded applications through MATLAB Simulink® Integration
- IP6K9K water and dust resistance, suited for industrial conditions
- 9 - 32V DC input (12-24 Volt nominal)
- 5V DC supply output, up to 2A, to power small electrical loads.
- NIS2 and CRA pre-compliant
- Data hosted on European cloud servers
- Over The Air updates

## Dot Link Ecosystem



## Dot Link Studio

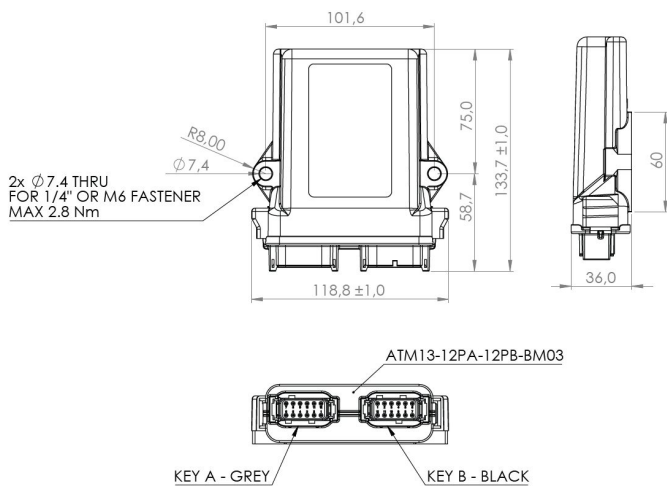
All data in the Dot Link Cloud is accessible within Dot Link Studio via tables, graphs, and native APIs. Built-in Model Context Protocol support enables direct access for AI models like Claude and Gemini, while administrative tools ensure precise access control and audit logging.

## Dot Link Portal

Device management is done in the Dot Link Portal. Here, insights can be found regarding device 4G data usage and costs.

## Mechanical Characteristics

| Specification         | Value                |
|-----------------------|----------------------|
| Enclosure material    | PA66 (UL 94) - Black |
| Dimensions            | 133 x 119 x 36 mm    |
| Weight                | 240 grams            |
| IP grade              | up to IP6K9K         |
| Operating temperature | -30° to 75° Celsius  |



## Serial Protocol Specifications

| CAN (CAN2.0b/CAN-FD)      | Value                  |
|---------------------------|------------------------|
| Bit Rate                  | 125 - 2000 kbit/s      |
| Supported protocols       | J1939, CANopen, OBD-II |
| RS232                     |                        |
| Data Rate                 | max 250 kbps           |
| Baud Rate                 | user configurable      |
| Voltage Swing             | +/- 5 V (DC)           |
| RS485                     |                        |
| Data rate                 | max 250 kbps           |
| Baud Rate                 | user configurable      |
| Common mode voltage range | -7 to +12 V (DC)       |

## Standards

| Name & Description                                                            |
|-------------------------------------------------------------------------------|
| <b>CE framework:</b><br>Regulation (EC) No 765/2008 / Decision No 768/2008/EC |
| <b>RoHS Directive 2011/65/EU</b><br>Restriction of hazardous substances       |
| <b>RED Directive 2014/53/EU</b><br>Radio Equipment Directive                  |
| <b>EMC Directive 2014/30/EU</b><br>Electromagnetic compatibility              |

## Electrical Specifications

| Input Power                                         | Value            |
|-----------------------------------------------------|------------------|
| Input nominal voltage                               | 12/24 V (DC)     |
| Input voltage operational range                     | 9-32 V (DC)      |
| Absolute maximum voltage (transients)               | 42 V (DC)        |
| Absolute maximum input current (fuse rating)        | 6.3 V (DC)       |
| Stand-by power consumption                          | 30 mA            |
| Power Outputs                                       |                  |
| 5 V(DC) output operational range                    | 0-2 A (DC)       |
| Open Drain output operational range                 | 0-4 A (DC)       |
| Push-Pull Controller high current operational range | 0-2 A (DC)       |
| Push-Pull Controller low current operational range  | 0-0.5 A (DC)     |
| Push - Pull Frequency (max.)                        | 100 kHz          |
| Analog Output (rating)                              | 5, 12, 24 V (DC) |