

# DDNG485

RS-485/DMX512 Gateway



## Specification Sheet

Gateways > Network Gateways



### Flexible network communications gateway

The Dynalite DDNG485 is a flexible network communications bridge designed for RS-485 networks. The two optically isolated RS-485 ports enable the DDNG485 to implement a trunk and spur topology on large project sites, with the bridge providing a high-speed backbone optically coupled to many lower-speed spurs.

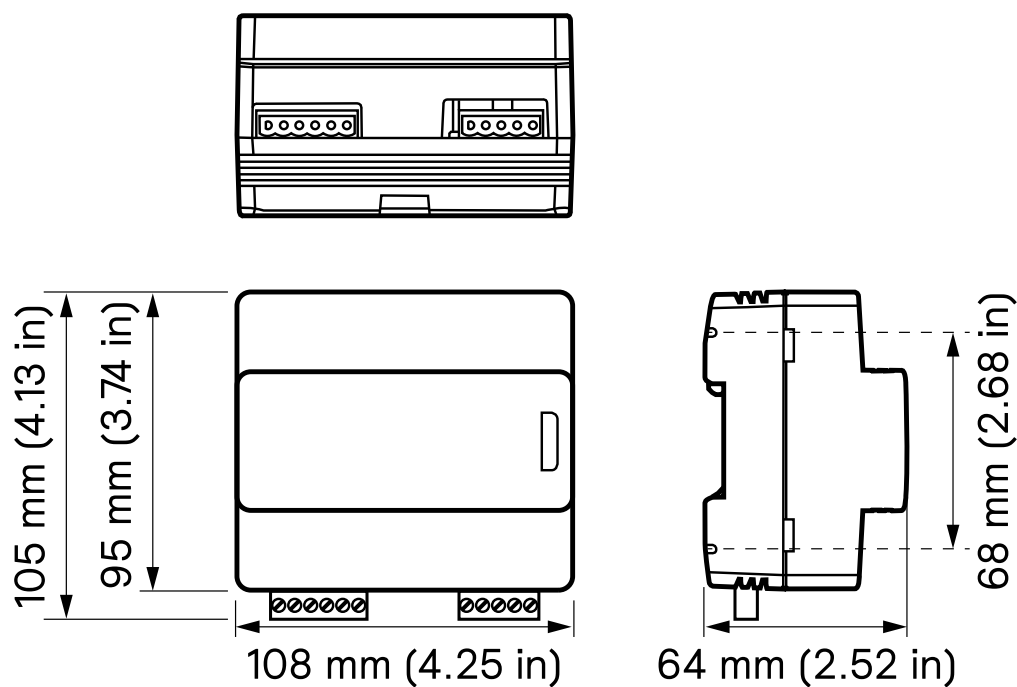
## Key Features

---

- **Route DyNet to third-party systems** – Integrate audio-visual equipment, Modbus meters, and building automation systems for a unified approach to building control and energy management.
- **DMX512 mode** – Transmit or receive up to 512 channels of DMX with automatic DyNet conversion and task triggering. Provides temporary control of house lights from the DMX console in an auditorium scenario.
- **Electrical fault isolation** – Faults can be isolated to individual network spurs.
- **Programmable Logic Controller (PLC)** – Supports comprehensive conditional and sequential logic, arithmetic function processing, packet filtering, and DyNet-to-DyNet2 translation.  
(NOTE: The DDNG485 supports a maximum of 32 DyNet presets)
- **Flexible mounting** – DIN rail mounting clips designed for installation into a distribution board or electrical enclosure.

## Dimensions

---



Specifications

Electrical	
Supply Voltage	DyNet Port 1: 12–24 VDC SELV / Class 2 (UL)
Supply Current	70 mA @ 12 VDC (+1.6 x DyNet Port 2 load current)  60 mA @ 24 VDC (+0.7 x DyNet Port 2 load current)
Serial Port Isolation	Optical (3.75 kV RMS)
Output Voltage	DyNet Port 2: 12 VDC
Output Current	200 mA (max) SELV / Class 2 (UL)
IEC Overvoltage Category	III

Control	
Communication Ports	Port 1: RS-485 (600–115,200 bps) Port 2: RS-485 (600–250,000 bps)
Supported Protocols	Port 1: DyNet Port 2: DyNet, DMX, Modbus
DyNet Presets	32
DMX Tx/Rx Channels	512
Dry Contact Inputs	1 x AUX SELV / Class 2 (UL)
User Controls	1 x service switch
Indicators	1 x service LED
Diagnostic Functions	Device online/offline status

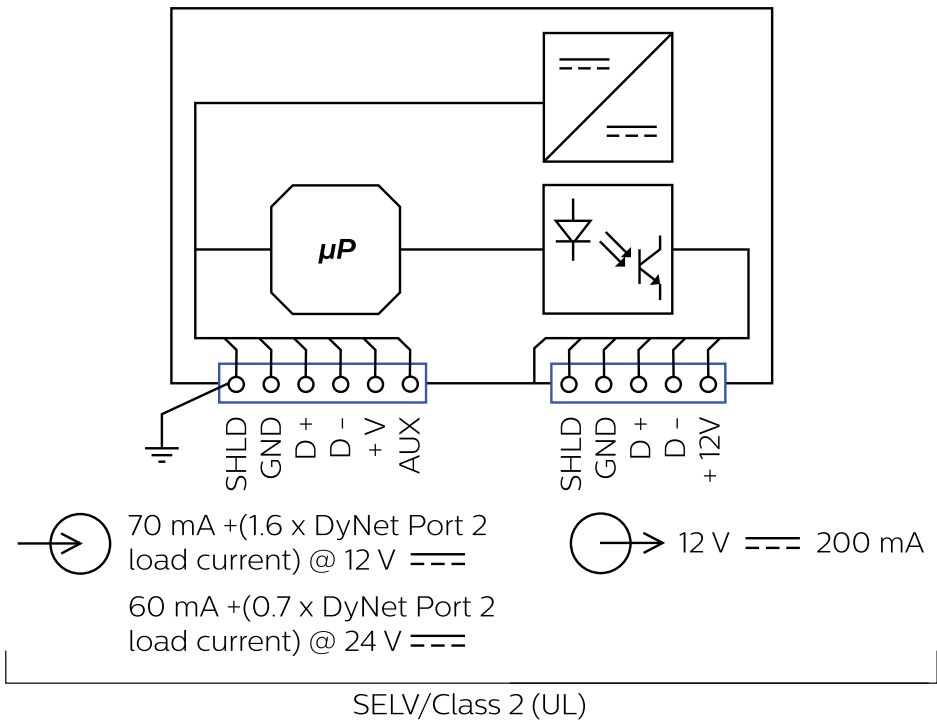
Physical	
Dimensions	95 x 108 x 64 mm (3.74 x 4.25 x 2.52 in)
Packed Weight	0.22 kg (0.49 lb)
Construction	Polycarbonate DIN rail enclosure (6 unit)
Communication Ports	1 x 6-way pluggable screw terminal 1 x 5-way pluggable screw terminal
Terminal Conductor Size	0.3–2.5 mm² (#22–12 AWG)

Environment	
Operating Temperature	0° to 50°C ambient (32° to 122°F)
Storage/Transport Temperature	–25° to 70°C ambient (–13° to 158°F)
Relative Humidity	≤90% non-condensing
IEC Pollution Degree	II
Installation Note	Install in a dry indoor well-ventilated location only Minimum 45 mm top and bottom clearance

Compliance	
Certifications	CE, RCM, UL/cUL, FCC, ISED, UKCA, RoHS



Electrical Drawing



Ordering Codes

Product	12NC
DDNG485	913703366709