Product description

- Independent lighting control for up to 256 DALI gears on 4 DALI lines
- Can be expanded by connecting multiple gateways on the same network
- Cloud based web interface for configuration and monitoring
- Setup via mobile App or Cloud service
- Connects to Tridonic DALI Interface RS232 PS/S
- Cross DALI line control
- Freely programmable daily scheduling with calendar function
- DALI emergency lighting unit test scheduling and monitoring via the connecDIM Cloud
- 5-year guarantee
connecDIM Gateway G1
Ethernet TCP/IP to DALI

Technical data

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated supply voltage DC</td>
<td>9 – 48 V</td>
</tr>
<tr>
<td>Power consumption</td>
<td>3.6 W (300 mA @ 12 V DC)</td>
</tr>
<tr>
<td>DALI interface RS232 PS/S ports</td>
<td>4 x RJ45 Serial Ports</td>
</tr>
<tr>
<td>Ethernet port</td>
<td>1 x 10/100 Mbit/s</td>
</tr>
<tr>
<td>Status indicators LED</td>
<td>Power, Ready, Ethernet, Serial Port</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>0 ... +70°C</td>
</tr>
<tr>
<td>Mounting</td>
<td>Tabs with screw terminals; DIN rail kit available</td>
</tr>
<tr>
<td>Casing Material</td>
<td>Fanless metal casing</td>
</tr>
<tr>
<td>Type of Protection</td>
<td>IP20</td>
</tr>
</tbody>
</table>

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging carton</th>
<th>Weight per pcs</th>
</tr>
</thead>
<tbody>
<tr>
<td>connecDIM Gateway G1</td>
<td>28000966</td>
<td>1 pc(s)</td>
<td>0.405 kg</td>
</tr>
</tbody>
</table>

Subject to change without notice.

www.tridonic.com
**Product description**

- Combines interface module and DALI power supply
- Integrated power supply with 240 mA for DALI devices or DALI control modules without power supply
- Interface module for connection of DALI systems with computer or programmable control systems
- For installation in switching cabinets
- 5-year guarantee

**Technical data**

- **Rated supply voltage**: 110 – 240 V
- **Permitted input voltage**: 110 – 260 V
- **Mains frequency**: 50 / 60 Hz
- **Power**: 1 – 6 W
- **Standby power**: 1 W
- **Max. output current, DALI**: 240 mA
- **Output voltage**: 16 V ±5 %
- **Operating temperature**: 0 – +50 °C
- **Storage temperature**: -20 – +60 °C
- **Max. casing temperature tc**: 80 °C
- **Permitted relative humidity**: 10 – 90 %, not condensed
- **Mounting**: DIN rail mounting, 35 mm
- **Casing material**: PC, flame retardant, halogen-free
- **Type of protection**: IP20

**Ordering data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging, carton</th>
<th>Weight per pc</th>
</tr>
</thead>
<tbody>
<tr>
<td>DALI Interface RS232 PS/S</td>
<td>28001847</td>
<td>100 pc(s)</td>
<td>0.09 kg</td>
</tr>
</tbody>
</table>

**Specific technical data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Input RS232</th>
<th>DALI output</th>
</tr>
</thead>
<tbody>
<tr>
<td>DALI Interface RS232 PS/S</td>
<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>
Product description

- Connection cable 1 m for connection of a DALI Interface RS232 PS/S to the connecDIM Gateway G1
- RJ45 to RJ45
- Transparent connector: connection to connecDIM Gateway G1
- Black connector: connection to DALI Interface RS232 PS/S

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Length</th>
<th>Packaging carton</th>
<th>Weight per pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>connecDIM RS232 cable</td>
<td>28000968</td>
<td>1 m</td>
<td>1 pc(3)</td>
<td>0.06 kg</td>
</tr>
</tbody>
</table>

Product description

- DIN-RAIL Mounting Clips to mount the connecDIM Gateway G1 onto a 35 mm DIN-RAIL

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging carton</th>
<th>Weight per pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>connecDIM DIN-RAIL Mounting Kit</td>
<td>28000969</td>
<td>1 pc(3)</td>
<td>0.03 kg</td>
</tr>
</tbody>
</table>
Product description

- Power supply for the DALI x-touchPANEL and the DALI e-touchPANEL
- The mains adapter is rated at 36 V
- Max. 2 gateways can be connected

Technical data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated supply voltage</td>
<td>230 – 240 V</td>
</tr>
<tr>
<td>Mains frequency</td>
<td>50 / 60 Hz</td>
</tr>
<tr>
<td>Max. power consumption</td>
<td>10 W</td>
</tr>
<tr>
<td>Output voltage</td>
<td>36 V</td>
</tr>
<tr>
<td>Max. output current</td>
<td>300 mA</td>
</tr>
<tr>
<td>Ambient temperature ta</td>
<td>0 ... +50 °C</td>
</tr>
<tr>
<td>Type of protection</td>
<td>IP20</td>
</tr>
</tbody>
</table>

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Article number</th>
<th>Packaging carton</th>
<th>Weight per pcs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>mains adapter x-touchPANEL</td>
<td>24166012</td>
<td>1 pcs(s)</td>
<td>0.155 kg</td>
</tr>
</tbody>
</table>
1. Standards
EN 61347-1
EN 61347-2-11
EN 60950-1
EN 55022
EN 55015
EN 61547
EN 61000-3-2
EN 61000-3-3
EN 61000-6-2
EN 50581

2. Common

2.1 Overview
The connecDIM system consists of a single four-channel RS232 Ethernet
gateway connected to Tridonic DALI Interface RS232 PS/S and a wireless
router. This enables 4 x 64 DALI devices to be networked and this DALI
circuit to be controlled as a whole, thanks to controllers connected to the
DALI circuit with mobile devices (iOS or Android operating system),
irrespective of whether T5, T8, LED or Tunable White DALI devices are
used. The system can be expanded to more than 4 DALI lines by connecting
multiple connecDIM Gateways to the network. This allows local DALI control
devices such as DALI XC or DALI MSensors to control multiple devices on multiple DALI lines.
The system can be easily made available on the connecDIM Cloud.

2.2 Storage of data
The connecDIM system collects data and stores it in the cloud.
Our storage policy is as follows:
• If the connecDIM system is used in combination with emergency
applications, these emergency application data will be stored for a
maximum of 24 months.
Data older than 24 months will be automatically deleted.
• All other data collected in the cloud will be stored for 3 months.
Data older than 3 months will be automatically deleted.

Data integrity in the cloud cannot be guaranteed as bad internet
connections and other network anomalies may influence the correctness
of the data displayed in the cloud.

2.3 LED

Ready LED
After Power ON, the gateway starts booting. Once the system has booted up,
the Ready LED will show solid green.

Link/Act LED
When the Ethernet port is connected to the network, Link/Act will show solid
green and if there is traffic on the Ethernet, this LED will flash.

Serial Port LED
These four dual colour LEDs indicate data traffic at the serial ports. When
the RXD line is high the green light will be ON and when the TXD line is high
the yellow light will be ON.

Power Connector
Connect the 9 to 48 VDC power line to the gateway. If power is being
supplied correctly, the power LED will show solid green.

2.4 Device overview
3. Interface

3.1 Serial Port

Serial Port Line 1 to Line 4

The four serial ports are configured to RS-232 and can be connected to TRIDONIC DALI Interface RS232 PS/S. They use RJ45 connectors and the pin assignment is shown in the following table:

Please note that standard patch cables should **not** be used! Refer also to the product datasheet for TRIDONIC DALI Interface RS232 PS/S. Available online at www.tridonic.com.

Please ensure that the correct RJ45 connector is connected to the gateway and to the RS232 DALI Interface. The cables supplied are clearly marked with “BOX” or with different colors. The BOX end (transparent connector) goes to the gateway and the other end (black connector) goes to DALI Interface RS232 PS/S.

<table>
<thead>
<tr>
<th>Gateway (RJ45)</th>
<th>Wiring:</th>
<th>RS232 PS/S (RJ45)</th>
</tr>
</thead>
<tbody>
<tr>
<td>pin 3 Ground</td>
<td></td>
<td>pin 4 Ground</td>
</tr>
<tr>
<td>pin 4 TxD</td>
<td></td>
<td>pin 5 TxD</td>
</tr>
<tr>
<td>pin 5 RxD</td>
<td></td>
<td>pin 6 RxD</td>
</tr>
<tr>
<td>pin 8 DTR (for supply purpose only)</td>
<td></td>
<td>pin 3 DTR (for supply purpose only)</td>
</tr>
<tr>
<td>pin 2 RTS (for supply purpose only)</td>
<td></td>
<td>pin 8 RTS (for supply purpose only)</td>
</tr>
</tbody>
</table>

4. Installation

4.1 Safety instructions

The device may only be used for the specified area of application.

Relevant health and safety regulations must be observed:

The voltage supply must be disconnected when the device is being assembled and installed.

Only qualified personnel may assemble, install and commission the device.

Do not use DALI Interface RS232 PS/S with any other devices that supply power (e.g. DALI PS).

Another way to test if another power supplying device is on the DALI signal wire is to connect:
DALI Interface RS232 PS/S to the DALI signal wire with the mains supply disconnected. If the power LED and the status LED are on (typically green) despite no mains supply to DALI Interface RS232 PS/S then another device is supplying power on the DALI signal wire.
4.2 Wiring examples

Data sheet 08/18-C0075-13
Subject to change without notice.

luxCONTROL lighting control system
connecDIM

INTERNET
WLAN

DALI Gateway G1
DALI RS232 PS/S
DALI x/e-touchPANEL 02
DALI MSensor 02
DALI XC

DALI Converter
DALI Tunable White

EM ... PRO

basicDIM DGC
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S

DALI Line 1 (up to 64 devices)
DALI Line 2 (up to 64 devices)
DALI Line 3 (up to 64 devices)
DALI Line 4 (up to 64 devices)

INTERNET
WLAN

DALI Gateway G1
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S

DALI Converter
DALI Tunable White

EM ... PRO

basicDIM DGC
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S
DALI RS232 PS/S

DALI Line 1 (up to 64 devices)
DALI Line 2 (up to 64 devices)
DALI Line 3 (up to 64 devices)
DALI Line 4 (up to 64 devices)
4.3 Wiring type and cross section

The wiring can be solid wire, stranded wire or stranded wire with end sleeve with a cross-section of 0.5 mm² to 2.5 mm².

- **wire preparation:**
  - 0.5 – 2.5 mm²
- **7 – 8 mm**

5. Miscellaneous

5.1 Additional information

Additional technical information at [www.tridonic.com → Technical Data](http://www.tridonic.com)

Guarantee conditions at [www.tridonic.com → Services](http://www.tridonic.com)

Life-time declarations are informative and represent no warranty claim. No warranty if device was opened.