

Datasheet SLC-Hub203-C

Smart Controller for Connected Lighting

The SLC-Hub203-C is a Zhaga D4i-certified street light controller designed for intelligent lighting applications. Acting as the central intelligence, the controller collects operational data and seamlessly connects lighting assets to modern management systems. Its integrated GNSS receiver enables automatic positioning and simplified commissioning, while the built-in eSIM, provides secure remote connectivity, monitoring and gateway functionality for up to 100 luminaires.



Remote Management

Provides real-time monitoring, management, and remote control of lighting networks via the SL-Control web platform.



On-Site Management

Enables on-site configuration of lighting parameters, including dimming levels, for individual luminaires or luminaire groups.



Mesh Network

Communication is ensured through a self-organizing 2.4 GHz mesh network connecting luminaires within communication range.



Global Cellular Connectivity

An integrated eSIM provides worldwide cellular connectivity via LTE Cat M1, NB-IoT NB2 and EGPRS networks.



Gateway Function

Enables remote monitoring of up to 100 connected luminaires via a single cellular controller.



Over-The-Air Updates

Enables remote firmware updates for connected controllers via the SL-Control web platform.



Automatic Positioning

The integrated GNSS receiver provides precise positioning and time synchronisation for automated lighting control.



AstroDim

Automatically adjusts lighting profiles according to precise sunrise and sunset times at the installation location.



Brightness Sensor

An integrated brightness sensor enables automatic on/off control based on ambient light levels.



Tilt Sensor

Integrated tilt sensing enables detection of pole movement, collision events, and changes in orientation across all axes.



Temperature Sensor

Integrated temperature monitoring supports predictive maintenance by identifying abnormal conditions.



D4i Motion Sensor Support

Supports D4i motion sensors and enables dynamic lighting by automatically adjusting light levels when movement is detected.



DALI Features

Application Controllers

✓	Supports DALI version-1 control gear
✓	Supports DALI-2 control gear
✓	Support for event messages from input devices
✓	Support for other application controllers on the same bus
✓	Support for Occupancy sensors (DALI part 303)
✓	Support for Light sensors (DALI part 304)
✓	Support for LED (DALI part 207)
✓	Support for Switching (DALI part 208)
✓	Support for Colour control (DALI part 209, DT8) ↳ Supports colour type Tc ↳ Supports colour type RGBWAF
✓	Supports feedback from control gear (including lamp failure feedback)
✓	Support for addressing or grouping of control gear
✓	Support for Luminaire-mounted control devices (DALI part 351) ↳ Type B
✓	Support for Luminaire data (DALI part 251)
✓	Support for Energy data (DALI part 252)
✓	Support for Diagnostics data (DALI part 253)
✓	Luminaire-mounted control devices (DALI part 351) ↳ Type A
✓	D4i certified

Connector

✓	Zhaga connector (Book 18)
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Maximum Ratings

Supply Voltage	34 V DC
Current Input	60 mA
Storage Temperature	-40...+90°C

Operating Parameters

Supply Voltage Range	12 – 30 V DC typ. 24 V DC
Current Input (24 V DC)	16 - 45 mA
Average Power Usage (24 V DC)	450 mW
Operating Temperature	-40...+80 °C
DALI Input Current	max: 250 mA
Protection Class	IP66
Impact Protection	IK09

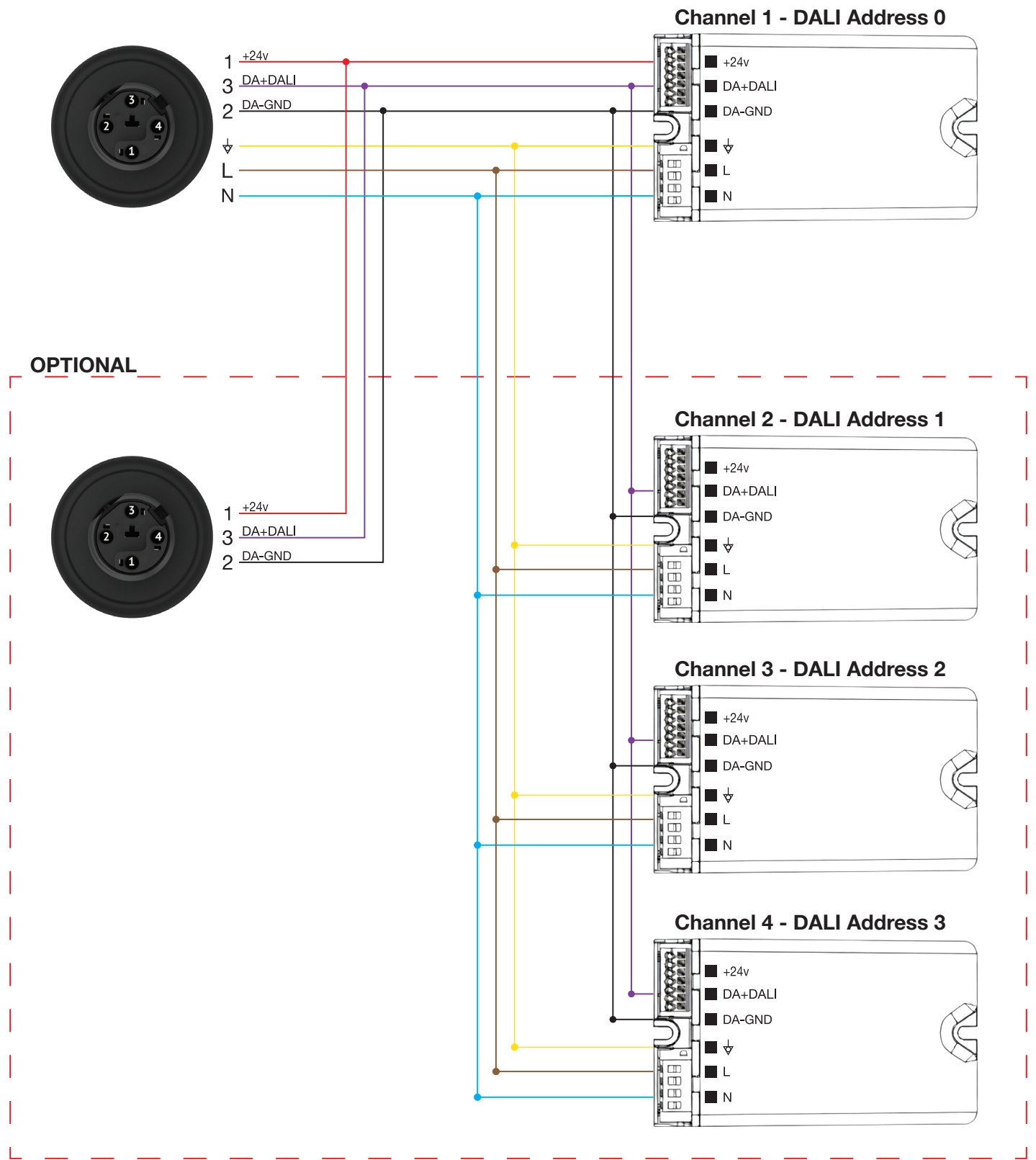
Mesh Characteristics

RF Frequency Range	2.420 – 2.480 GHz
RF Nominal Output Power	+8 dBm
Receiver Sensitivity	-100 dBm

Cellular Characteristics

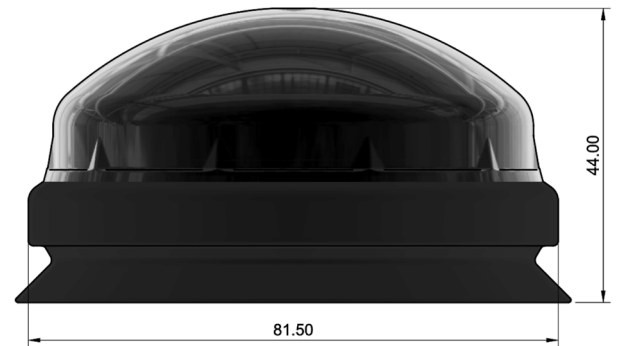
Protocols	LTE Cat M1, NB-IoT NB2, EGPRS
Frequency Bands (MHz)	CAT M1: B1/B2/B3/B4/B5/B8/B12/B13/B18/B19/B20/B25/B26/B27/B28/B66/B8 NB-IoT NB2: B1/B2/B3/B4/B5/B8/B12/B13/B18/ B19/B20/B25/B28/B66/B71/B8 EGPRS: 850/900/1800/1900 MHz

Wiring



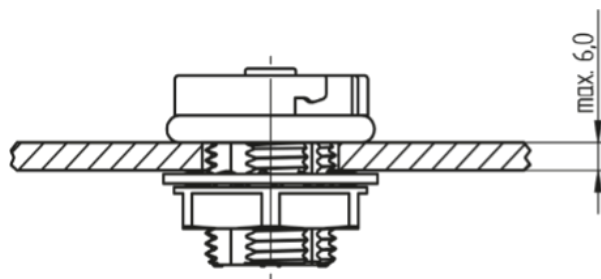
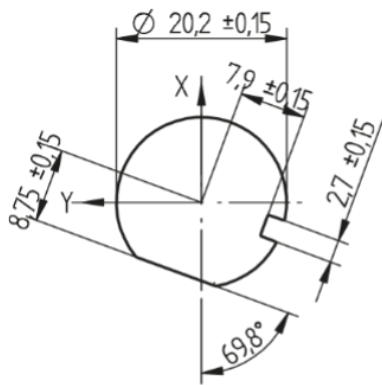
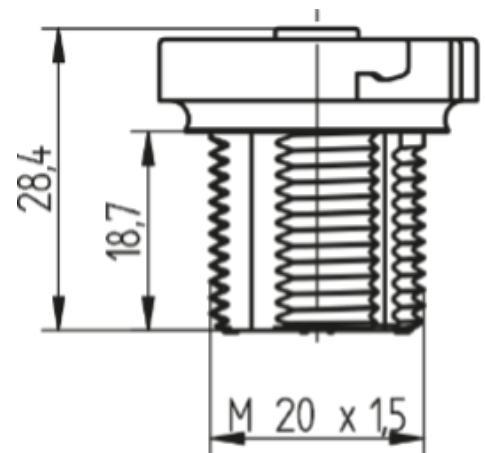
Dimensions SLC-Hub203-C

Diameter	81.50 mm
Height	44.00 mm
Weight	75 g
Dome Material	Polycarbonate
Dome Color	Transparent Smoke Grey
Base Material	PBT
Base Color	Grey



Dimensions Zhaga Connector

Diameter	30.00 mm
Height	28.40 mm
Thread Length	18.70 mm
Thread Pitch	M20 x 1.5
Material	PBT
Wire Size	20-16 AWG (0.5 - 1.5 mm²)
Mounting	Tightening torque 1.8 – 2.4 Nm (27 mm hex socket)



All information has been carefully checked; however, errors and technical changes are reserved.