

The Zhaga Part

Zhaga – DiiA Webinar



Dee Denteneer

Zhaga



Book 1-25 Overview by application

	Office & Industry		Retail & Hospitality		Outdoor	
Integrated LED light engines	14	2,8	17	16		
LED modules (non-integrated)	7 21	14	12 9	5 3,10	4 15	19
Drivers	13		LED > 22,23		24,25	
Sensor and communication modules	20			18		



Multi-vendor product interoperability to break barriers for connected lighting

Complementary specifications



D4i specifications from DiiA

Book 18 & Book 20 specifications from Zhaga



DALI Part 250: Integrated bus

power supply

DALI Part 251: Luminaire

data

DALI Part 252: Energy data

DALI Part 253: Diagnostics

data

DALI Part 351: Luminaire-mounted control devices **DALI Part 150**: AUX power

supply







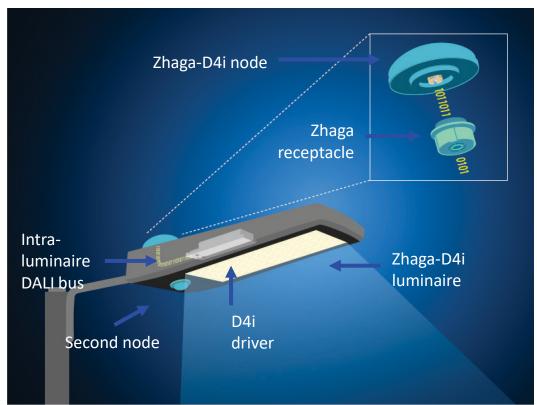


Book 18 for outdoor: Book 20 for indoor:

- Mechanical interfaces
- References to D4i specs for power & control, and luminaire tests
- Electrical pin assignment

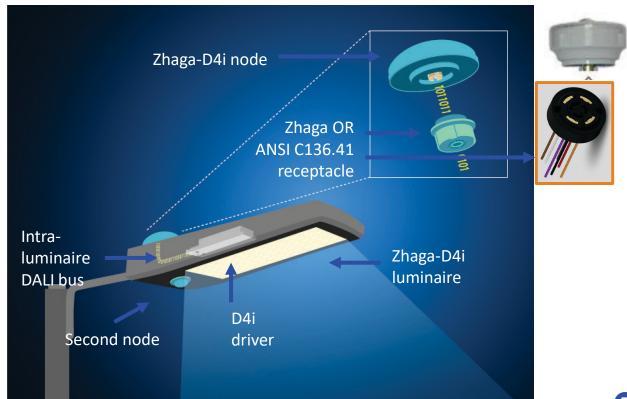
























Zhaga-D4i certification adds value

- Confidence in multi-vendor interoperability
- Communication
- Future-proof luminaires





D4i certification



Zhaga-baseplate



Zhaga-receptacle



Zhaga-cap



D4i driver





Zhaga-D4i certification is easy

- Certified components
- Simple flow
- Knowledgeable test houses



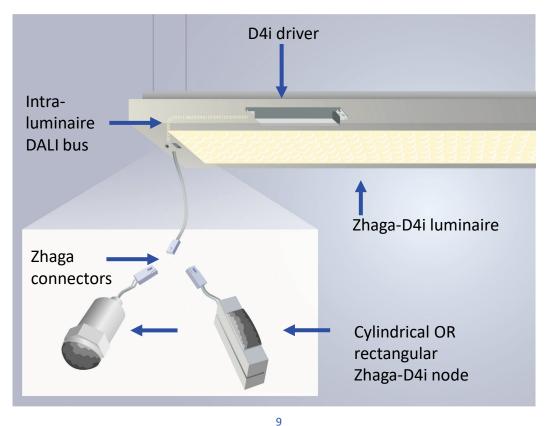






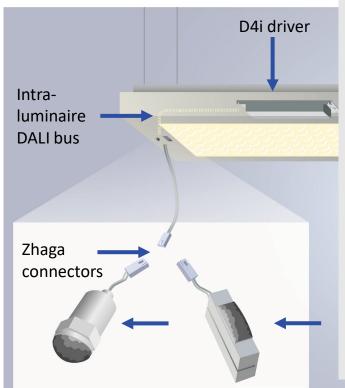












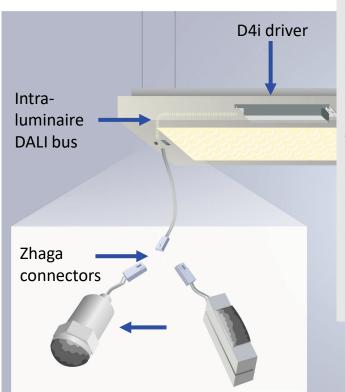
Defines four different categories for the mechanical interface at the luminaire

- R44x17 (44 x 17 mm)
 → Rectangular modules with small volumes and indifferent orientation
- R60x22 (60 x 22 mm)

 → Rectangular modules requiring more volume and surface, e.g. gas detectors or complex presence detectors
- C22-T2 (Ø 22 mm):
 → L-shaped modules enable ultraflat luminaire designs





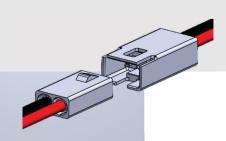


Defines a connector

- Two position pin and socket interface
- Poka Yoke features prevent incorrect mating
- Connector provides finger proof protection

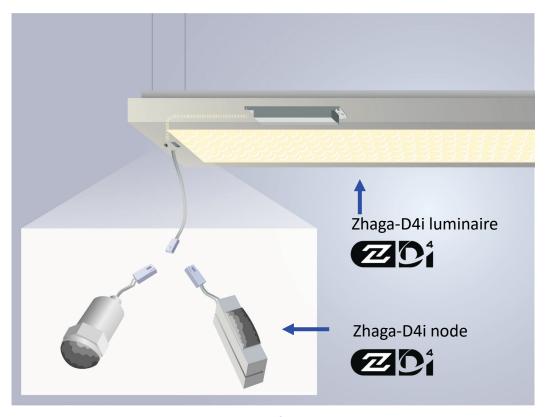
"if it fits it works"

- Easy and safe replacement
- plug-and-play connection
- future-proof the luminaire









Zhaga-D4i certification adds value

- Confidence in multi-vendor interoperability
- Communication
- Future-proof luminaires



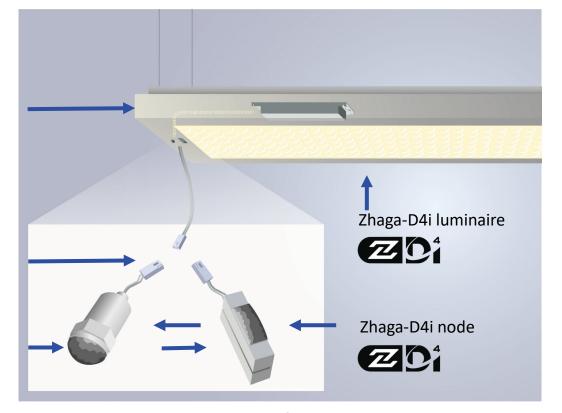


D4i driver

Zhaga connectors

D4i certification





Zhaga-D4i certification is easy

- Certified components
- Simple flow
- Knowledgeable test houses









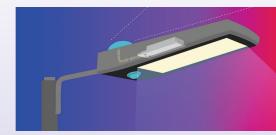


Zhaga-D4i certification for luminaires, Book 18



- Open to Zhaga Associate and Regular Members
 - That have signed logo license agreements
- Products use certified components (drivers, connectors, receptacles, baseplates, caps)
- Manufacturer connects to test house for a quote, options for family testing, and detailed instructions
- Manufacturer provides
 - Detailed circuit diagram of the luminaire
 - Construction diagram of the luminaire
 - Letter of confirmation (template on website, D4i certified driver)
- Test house uploads positive test summary to Zhaga database







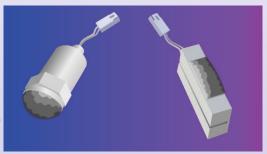
Zhaga-D4i certification for nodes, Book 18

ZHAGA Consortium

- Open to Zhaga Associate and Regular Members
 - That have signed logo license agreements
- Products need be D4i certified as control device and be classified as Type A or B
 - Requiring DiiA Regular or Associate membership
- Manufacturer connects to test house
- Manufacturer provides
 - Connector pin-out diagram of the node
 - Construction diagram of the node
 - Letter of confirmation (template on website)
 - And a sample for non-certified baseplates
- Test house uploads positive test summary to Zhaga database







Benefits of the Zhaga-D4i standard and certification

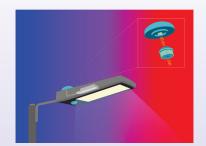
ZHAGA Consortium



- creates a simple plug-and-play way of adding nodes to a luminaire.
- is available as an open standard to drive scale and innovation.
- provides for interoperability across vendors.
- simplifies specification and tender process.
- allows selection of luminaires today that are future proof to the technology advances of tomorrow.



Zhaga-D4i certification provides the assurance to the market that luminaires and nodes from different vendors will work together.





Zhaga-D4i Book 18 eco-system

Outdoor luminaires:

- Zhaga-D4i certified luminaires available from 15 vendors
- ~80 Zhaga-D4i certified luminaire families
- Supported by
 - Zhaga receptacles, baseplates and caps: available from 6 vendors
 - D4i LED drivers: ~125 available from 8 vendors

Required in many tenders







THANK YOU!

Dee Denteneer

Secretary General of Zhaga

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Zhaga-D4i certification for luminaires



Organisation

Process

Comment



Associate or regular membership of Zhaga is required ZHAGA Consortium



Compile required documentation and submit to Zhaga Test Centre

Tested for compliance against Zhaga specifications

Product awarded Zhaga-D4i certification and use of Zhaga and D4i logos



Zhaga-D4i certification for nodes for Book 18



Organisation



Comment





Associate or regular membership of DiiA is required







Submit results to the DiiA for verification and D4i

certification.

Product self tested or tested by DiiA test house



Tested for compliance against Zhaga specifications

Product awarded Zhaga-D4i certification and use of Zhaga and D4i logos







Associate or regular membership of Zhaga is required



