

Renesas Ready Ecosystem Partner Solution DALI Lighting Control Solution



PARTNER
NETWORK

READY

Solution Summary

DALI Lighting Control Solution is DALI Lighting Control Solution is based on DALI, the international standard for lighting control replied with IEC62386. The protocol sack library supports the DALI-2 international standard for lighting control, and provides comprehensive support for developing DALI-compliant lighting control solutions and lighting equipment. Development tools and boards with Renesas [RL78/I1A](#) and [RX65N](#) MCUs are available for this solution.

Features/Benefits

- Hardware and software development support DALI standard Part 101, 102, 103, 207, 301, and other DALI standard
- Test under the same conditions as official DiiA-accredited test houses
- Support for certification testing on behalf of official test houses (GRE Alpha)
- Consulting services based on the latest DALI specifications

Diagrams/Graphics



Product Name	TS-CG-RL78I1A-102KIT
On-board MCU	Renesas RL78 / I1A (R5F107DE)
Supported Emulator	Renesas E2 Emulator Lite
Interface	DALI-2 Interface LED x 4
Power Source Voltage	DC 5V ± 10%



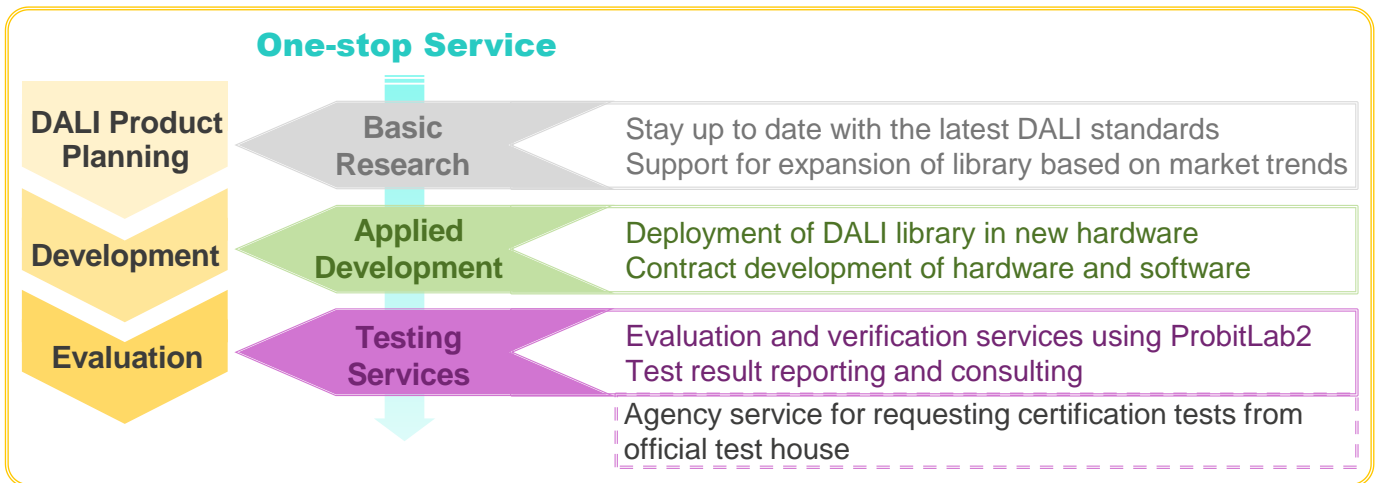
Product Name	TCM-RX65N-OP1
On-board MCU	Renesas RX65N (R5F565NEDDFP)
Interface	DALI-2 Interface DALI-2 Simple Power Supply Lighting Control Switches (9ch)
Power Source Voltage	DC 5V

Target Markets and Applications

- Smart building
- Smart home
- Consumer electronics
- Industrial lighting control

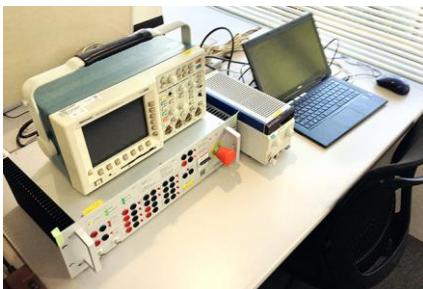
www.tessera.co.jp/eng/business

Strong One-stop Support for the Development of DALI-enabled Lighting Equipment



Basic Research

We are a DiiA associate, always up to date with the latest DALI test sequences.



DALI Evaluation and Development Environment

We also have the IEC62386 specifications officially purchased and possessed. By our dedicated staff, who are always up-to-date with the latest specifications, provides accurate consulting.



Applied Development

- Contract development of DALI-PWM conversion control software for lighting equipment manufacturers
- Contract development of LED lighting device control software for lighting device manufacturers
- Development of wireless DALI software for demonstrations
- Development of the Renesas DALI Library (for Part 102, 207)

Testing Services

We are an authorized user of the Lichtvision Engineering ProbitLab2 evaluation equipment, and we conduct our tests under the same conditions as an official DiiA-accredited test house.



ProbitLab2

In addition, we provide an agency service for requesting certification testing from GRE Alpha, an official test house.

Results:

- Evaluation and verification of DALI-1 Part 102 for lighting equipment manufacturers
- Evaluation and verification of DALI-1 Part 102 + 207 for lighting equipment manufacturers

Contact https://www.tessera.co.jp/cgi-bin/admin/C-007/contact_eng/visit/form_submit.pl