

## VEmesh for High Performance Wireless Lighting

VEmesh™ three lines of products have been devised to fulfill the industry need for **Wireless and IoT Lighting Networks** with highest performance in terms of robustness, resiliency, range and power consumption. Easy to deploy and to maintain, VEmesh is an ideal complement to LED lighting retrofit and to new smart lighting deployments.

### Common Features

- Most advanced mesh wireless networks on market for wireless communication with unmatched performance
- Highest robustness and resilience by use of space diversity, time diversity and frequency diversity
- Standard DALI controller (DALI Master) or cloud management (IoT) choice
- Utmost simplicity in deployment and maintenance - for all types of networks
- Mobility of gateway and nodes, to enable the use of modern mobile architectural elements
- High security with Frequency Hopping in local networks and 128-bit AES encryption in hub connection.

### VEmesh Wireless Extension to DALI

VEmesh Wireless Extension to DALI (or D2D) solution enables users to benefit from all DALI capabilities with the added flexibility of wireless and its lower deployment costs.

The use is mainly indoor - offices, retail stores, production halls, warehouses, public buildings and alike.

- Any wired - wireless configuration for maximum flexibility
- Supports standard DALI1 and ready for DALI2 luminaires, controllers, switches, dimmers and sensors
- Up to 64 Node Bridges per Gateway (network)
- Each Bridge Node can support up to 8 luminaires
- Up total 64 short addresses, as per DALI standard
- Up to 250 co-located or adjacent networks



*VEmesh Gateway for all types of networks  
(available also in DIN Rail case)*

### VEmesh IoT Extension to DALI

VEmesh IoT Extension to DALI (or E2D) solution enables the use of DALI luminaires in a cloud (IoT) or local controlled network. The use is mainly in outdoor, for street and highway lighting, as well as in large indoor deployments.

- Wireless connectivity for DALI Luminaires and Sensors
- Up to 16,000 Luminaires per single Gateway (network)
- 10KM radius area per single Gateway (network)
- Up to 250 co-located or adjacent networks
- Practically unlimited number of non-adjacent networks through frequency and sequence re-use



*VEmesh Bridge Node for Wireless extension to DALI (D2D) and for IoT extension to DALI networks (E2D)*

### VEmesh IoT Extension to Lighting

VEmesh IoT Extension to Lighting line of products have been designed to offer high performance and be cost effective in general purpose lighting - indoor and outdoor. Targeting mainly the OEM market, they are used mainly by LED luminaires and driver manufactures for high performance, wire-free advanced control.

- Wireless lighting control for any protocol
- Unlimited number of Nodes (luminaires) per network
- 20KM radius area per single Gateway (network)
- Up to 250 co-located or adjacent networks
- Practically unlimited of non-adjacent networks through frequency and sequence re-use



*VEmesh Node module for VEmesh Extension to Lighting networks*

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