



1 Node LTE - M which works on **MULTIPLE** NB-IoT LPWA cellular **bands** 2G / 4G



Ohli node is a smart lighting solution-in-a-box. You can buy 1 or 10,000* smart lighting controllers, plug them into the standard NEMA socket on your LED fixtures (just like a photo-controller), and voila - you have smart lighting! All the benefits of advanced smart streetlights! Total control and status visibility - with no gateway installation, no RF surveys or other complex setup.

Works with all cellular providers and networks

Ohli node uses a built-in, industrially-rated, next generation, remotely programmable SIM card which works with multiple cellular providers (e.g. AT&T, Sprint, T-Mobile, Verizon, etc in US) and multiple networks (2G, 4G, LTE-M or NB-IoT) - out-of-the-box - in 170 countries. Ohli node works on the regular leading networks but at a low rate, fixed for 5 years. And because we work with all the cellular providers, if service is spotty with one, we just switch to another provider with better coverage in that area, automatically.

No gateway needed ever

Most smart lights for outdoor areas or streetlights connect to the network via a gateway device. Each gateway device is proprietary, has a limited range, and can handle only a certain number of lighting controllers, plus installing a gateway requires a certain skill set and expense tools for RF survey, power and mounting locations. Ohli node works differently. Because it uses the cellular network (or NB-IoT) Ohli node doesn't need a gateway at all. You can run Ohli nodes standalone, or alongside any type of existing network.

Pre-programmed, pre-commissioned, pre-bundled

The technology is all built-in, pre-packaged and bundled with the software and monitoring service you need to make it work first time. But best of all, Ohli node sells for a fixed, one-time price with no extra roaming or other add-on charges. You know exactly how much you are paying for 5 years of service.

Cloud-based management and monitoring built-in

Ohli node comes with a 5-year subscription to a cloud CMS (Central Management System) that is based on Dhyan's Ohli CMS. In addition, it comes with 24x7 monitoring service which helps our customers operate the network with complete peace of mind. Ohli CMS can manage controllers from different manufacturers running different network protocols, all at the same time, so you are never locked in or locked out.

Secure, Plug-n-Play

Ohli node uses TLS/AES to provide end-to-end encryption, the gold standard for protecting communication. Only the sender and the intended recipient can access the data - it is fully protected from hackers and unwanted third parties all the way from your smart light to the server.

Plug-n-Play Ohli node is self-commissioning and once powered up starts communicating immediately with the Ohli CMS - all thanks to our Patented UI & accurate GPS in the node.

Ohli CMS is a secure, highly scalable, and easy-to-use comprehensive Central Management System (CMS). Our patented technology lets you to manage, monitor, and control a variety of smart street assets such as streetlights, cameras, access points, charging stations, billboards, and IoT sensors.

Secure, Scalable, Easy-to-use

Ohli CMS is powered by DMS (Dhyan Management System). DMS is a mature and scalable technology that has been on the market for a decade managing millions of endpoints (devices). It is a secure smart street light central management software (CMS) which has been extensively tested for security compliance and will never be the "weak link". Its patented easy-to-use interface ensures that users are highly productive.

On-premise and Cloud Version with Multi-Tenancy Support

A central management software (CMS) might need to be deployed on-premise or in a cloud based on the customer's need. Ohli solution supports both on-premise and cloud versions. Ohli can be deployed in both public clouds - such as Amazon AWS, Microsoft Azure, Google Cloud - and private clouds. It also supports multi-tenancy whereby multiple cities networks can be managed with a single instance of Ohli CMS eliminating the need to install Ohli CMS to manage each and every network independently.



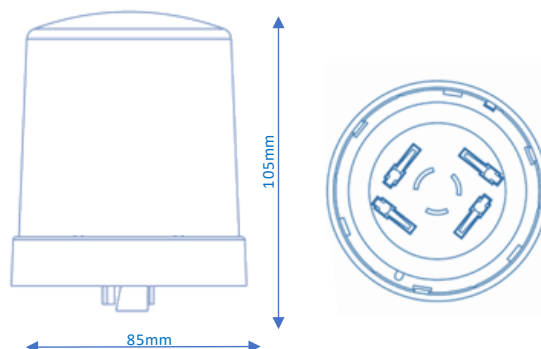
Real-time Control

With Ohli CMS, a world-class smart central management software, you are kept fully aware of the status of your streetlights. It can be upgraded to our StreetMan[®] platform to monitor streetlights as well other smart assets such as EV chargers, digital billboards, cameras, environmental sensors etc., that need attention. More importantly, you can also make changes to those assets in real-time.

Mobile App

The Ohli mobile application takes things even further by allowing field technicians and installers to onboard and manage Ohli nodes directly from their mobile devices. Ohli nodes can be controlled via Bluetooth connection or Network connection from the mobile application. No more tedious manual management for outdoor lights.

Specifications



Parameters	Ohli Plus
Operating Voltage	90V to 510V (50/60Hz)
Maximum Output Power	1400W
Load Switching	15A
Standby Power Consumption	Less than 2W
Surge Protection	10KV / 10KA
Relay Protection	Zero crossing
Operating Temperature	-35C to +70C
IP Rating	IP66
Impact Rating	IK08
Dimming Output	0-10V, PWM, DALI2, D4i (Auto Select)
Controller Modes	Automated & Astronomical scheduling, Photocell control
Metering Accuracy	1.0% accuracy
Security	AES 128 / 256-bit encryption
LPWA Cellular Bands	LTE-M, NB-IoT, 2G, 4G
ANSI Standard	C136.41 NEMA 7-Pin
Region Support	Global
Data Frequency	Customizable, standard – hourly
FCC	Part 15, Subpart B, Class B
Dimensions	105mm x 85mm
Weight	0.3Kg
Warranty	5-year standard warranty
OTA Support & Updates	✓
GPS	✓
Temperature Sensor	✓
Overload Protection	✓
Bluetooth	✓
Tilt Sensor	✓
Secure Memory Module	✓ Data stored in case of communication interruption
Last Gasp/Power Outage	✓

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance between 20cm the radiator your body: Use only the supplied antenna.

FCC ID: 2A729-DPNC