SURYA

CCMS PANEL (1 / 3 PHASE)

CCMS Panel provides the ability to the device to act as an interface between Street Light Controller (working over 2.4 GHz Mesh Network) and Surya IoT Platform.

To enable this mode the device is fitted with a 2.4 GHz radio module for communicating with the Wireless Mesh Network of Street Light Controllers (SLCs), spread across a large area. The SLCs, after bi-directional authentication with Gateway, connect to it, for getting connected to the IoT Platform. These SLCs can then be seen, monitored, and controlled as individual or group units from the platform.

IoT Gateway can communicate with the IoT platform through 4G/3G/2G network.

Technical Specification

Communication Specifications	
Server Communication	2G / 4G LTE-FDD : B1/ B3/ B5/ B8 LTE-TDD : B34/ B38/ B39/ B40/ B41 GSM/ EDGE : B3(Optional)/ B8 (Optional)
RF Frequency band	2.4 GHz
RF Standard	IEEE 802.15.4
Network security	AES 128. TLS 1.2 for interaction with the IoT platform.
Protocol	802.15.4 based Mesh in RF network. MQTT/HTTPS for interaction with IoT platform.
IoT Gateway to Device ratio	1:200, 1:100 (recommended)

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Hardware Specification	
Input Voltage	90-440V AC
Power Consumption	<10W
Surge Protection	40KV
Electrical safety	Galvanic isolation between high-voltage and low-voltage terminals Short Circuit protection
Operating Conditions	-25 °C to +70 °C operating, -40 °C to +85 °C storage
CPU	Beyond Archt. Processor
RF Output Power	22 dBm max programmable
Local Data Storage	30 days Local data in RR Style
Operating conditions	-25°C to +55°C operating.
Antenna	SMA/uFL type Antenna for RF. SMA type Antenna for GPRS.
Battery Backup	Up to 6 Hrs.
Mounting	Pole / Ground Mountable
IP Rating	IP65
Enclosure Material	CRCA Sheet