

General Description

MOONS' Wireless Intelligent Public LED Lighting Monitoring System is suitable for all kinds of urban road landscape, parking lots, tunnels, etc. System consists of wireless intelligent gateways, Node controllers, Wireless Intelligent Public LED Lighting Monitoring System software. And system allows you to add sensors.

Each wireless intelligent gateway can manage up to 200 wireless node controllers. In order to adapt to road use environment, We design a tree wireless network, it can support up to 20 hops.

Features

Designed for outdoor use, can be retrofitted into existing lanterns;
IEEE802.15.4 Compatible(2.4GHz)
Wireless transmission distance is greater than 500 m (visual range)
250kbps transmission rate;
Dimming interface: 5V PWM;
Can monitor the DC voltage, current, power and temperature;
Communication Failure protection mechanism, if communication terminal after 10 minutes , will enter into the state of the default lights ;
Control failure protection mechanism, even if the MCU breakdown, also can keep the lamp lighting;
Connect to the MOONS' STB series LED drivers;
Plug in connection;
Small in size;
IP67.



**MSDK5000
&
MOONS'
STB Series
LED Driver**

Technical Specifications

**DC
input**

RF

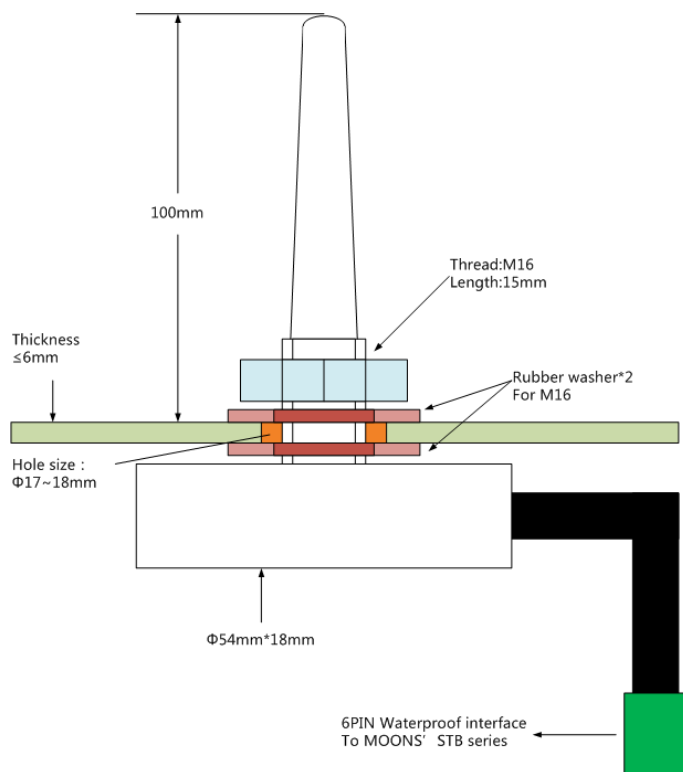
Dimming

Sample

Stability

Voltage	4.5~5.5VDC
Current(RMS)	50~60mA
Current(Peak)	≤300mA
Transmit Power	18dBm
Receive sensitivity	-100dBm
Transmission rate	250kbps
Frequency range	2400~2485MHz
Voltage	0~5.5VDC
Current	0~10mA(Sink)
Frequency	1.0kHz
Accuracy	-1~+1%
Voltage Sample	0~2.4VDC
Current Sample	0~2.4VDC
Accuracy	-5~+5%
Operating temp.	-40~70°C
Enclosure temp.	≤80°C
Humidity	10~90%,no frost
Pressure	63~108kPa,Alt.≤4000m
Storage temp.	-40~85°C
Vibration	10G
Housing	IP67
MTBF	≥30000h @25°C
Data write	10 ¹⁴ times
Dimensions	φ54*80mm
Weight	100g
Standards	IEC61000-4-2 IV; IEC61000-4-3 II; IEC61000-4-4 III; IEC61000-4-6 II; IEC61000-4-8 III; CISPR 11 (2.4~2.5GHz)

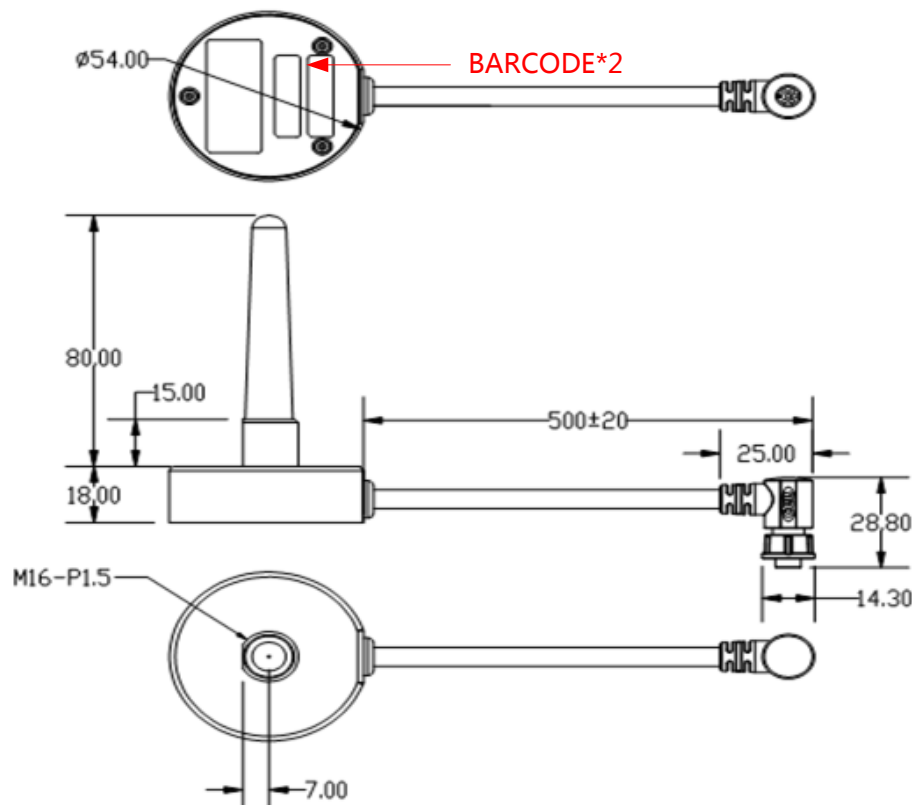
Typical Application



Attention:
Make sure the antenna is not blocked by Metal.

Note:
The system displays the voltage and current values equal to the voltage and current sampling value multiplied by coefficient .
(Coefficient is determined by LED Driver models).

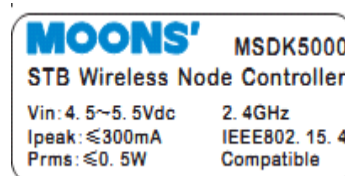
Dimensions



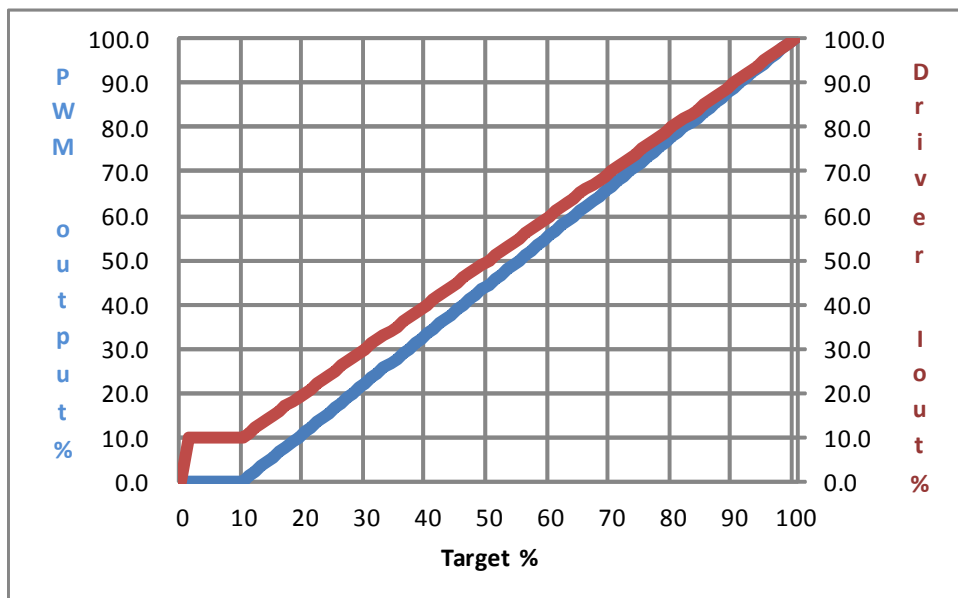
6PIN Interface To LED Driver



Label



Dimming Curve



NOTE:

The default dimming curve is shown above, for mating MOONS' STB series LED drives.

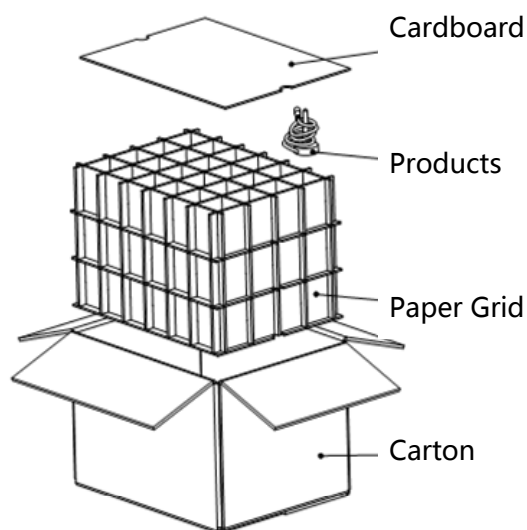
Order Information

MSDK5000 STB Wireless Node Controller (Waterproof Interface 90° bend)	4696350002376
M16*1.5 Nylon nut (Replaceable)	3698201101194
Gasket (Replaceable)	3698201101195

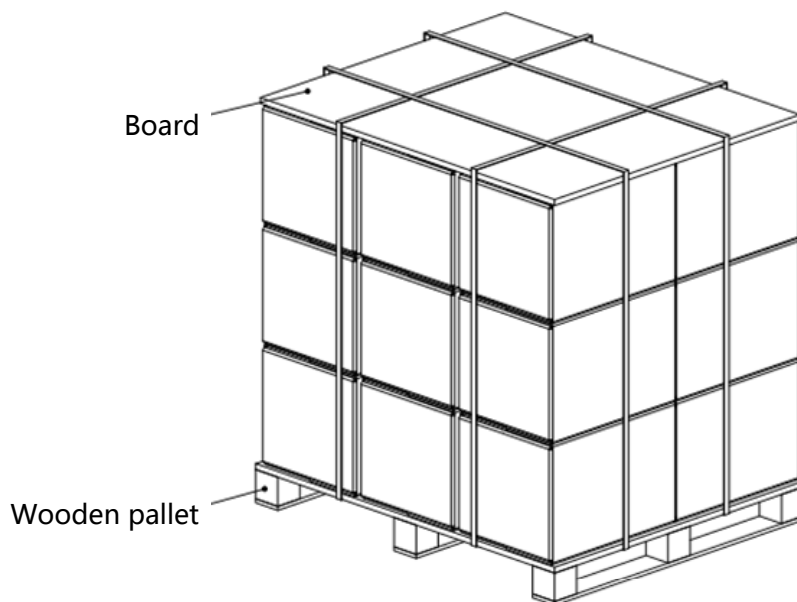
Package List

MSDK5000 STB Wireless Node Controller (Waterproof Interface 90° bend)	*1
M16*1.5 Nylon nut	*1
Gasket	*2

Package



1pcs weight:0.150Kg;
72pcs/carton weight:8Kg
Carton Dimension: 505*385*360



1296pcs/pallet weight:150Kg
Pallet Dimension:1219*1016*1180