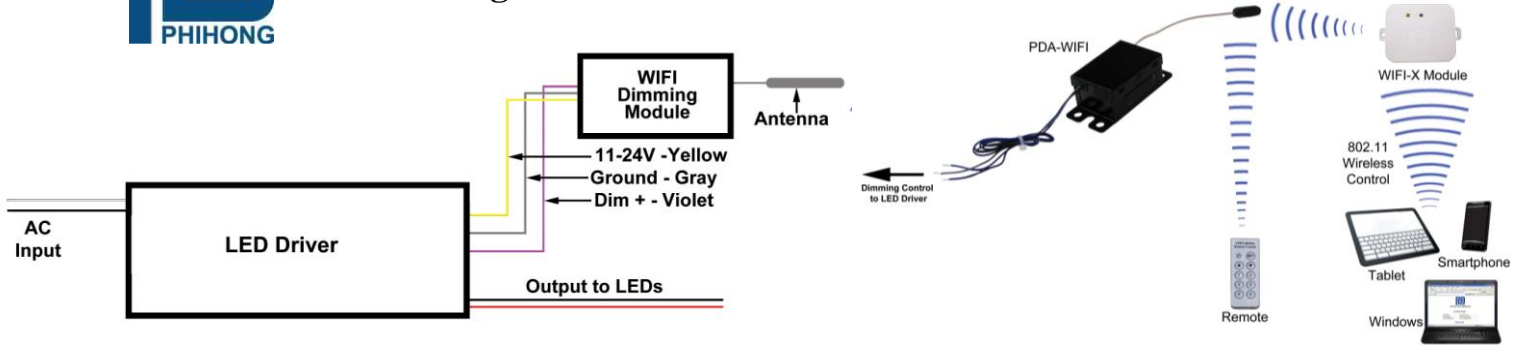# Modular Accessory for Remote Control of Lighting Fixtures Using a Remote or Browser and Wireless Access Point

Features

- Remotely turn lights on/off
- Windows GUI available
- GUI interface accessible via a device with a browser and WiFi via WIFI-X
- Retrofit Kits
- Control up to 6 fixtures from one module
- GUI can control up to 64 Modules

- Dimming control
- Control luminaires with remote
- Android/iOS applications available for smartphones and tablets
- WiFi Antenna Range of 150m
- <10m range for RF controller

Applications

- Indoor Lighting

Product Specifications

Model	Description	Product Image
PDA-WIFI	Dimming Module	
PDA-WIFI-X	WIFI Module	
RCA-RF	Remote	

Note *: Part numbers are sold separately

Mechanical Characteristics

PDA-WIFI
- Length: 90.2mm (3.6in)
- Width: 43mm (1.7in)
- Height: 31mm (1.2in)
- Weight: 106g (3.7oz)

PDA-WIFI-X
- Length: 91mm (3.58in)
- Width: 57mm (2.24in)
- Height: 20mm (.79in)
- Weight: 50.5g (1.78oz)

RCA-RF
- Length: 86.2mm (3.39in)
- Width: 33 mm (1.29in)
- Height: 8mm (0.31in)
- Weight: 16.5g (0.58oz)

PDA-WIFI Characteristics

INPUT:

AC Input Voltage
11V~24V

Input Current
28mA

Ingression Protection
IP50

Environmental:

Temperature
Operation	-20 to 50℃
Operating Humidity	10% to 95%

Input / Output Connections

Position	Terminal Color	Specification	Length
Dim+	Violet	AWG22 Solid Wire	400mm
Ground	Grey	AWG22 Solid Wire	400mm
Aux	Yellow	AWG22 Solid Wire	400mm

PDA-WIFI-X Characteristics

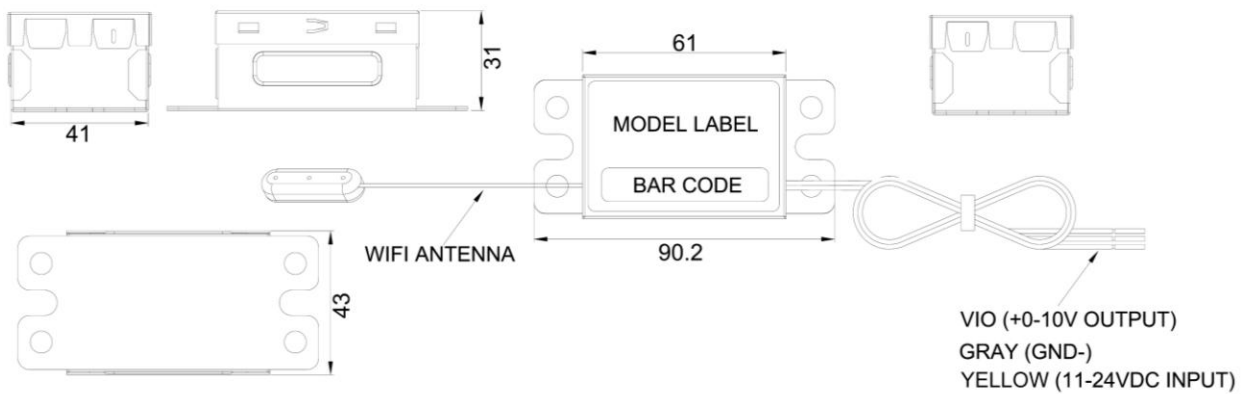|		
Data Rate		IEEE 802.11b: 1, 2, 5.5 and 11 Mbps IEEE 802.11g: 6, 9, 12,18, 24, 36, 48 and 54 Mbps Supports TX rate auto fall-back mechanism
Radio	**Frequency Range**	2.412~2.484 GHz
	Number of Selectable Sub-channels	Up to 14 channels. Profiles available include USA, Canada, Europe, Spain, France, Japan, China, Taiwan and "Other"(multiple countries)
	Modulations	IEEE 802.11b: DSSS with DBPSK,DQPSK and CCK IEEE 802.11g: DSSS with DBPSK,DQPSK and CCK OFDM with BPSK, QPSK, 160QAM
	Antenna	Integrated PCB antenna
RF Receiver Max Receive Level		802.11b DSSS : -5 dBm 802.11b CCK : -10dBm 802.11g OFDM : -15 dBm
RF Receiver Max Receive Sensitivity		802.11b : -92dBm @1Mbps; -90dBm@ 2Mbps; -89dBm @5.5Mbps; -85dBm @11Mbps 802.11g : -82dBm @6Mbps; -82dBm@ 9Mbps; -82dBm @12Mbps; -82dBm @18Mbps -79dBm@ 24Mbps; -76dBm @36Mbps; -71dBm @48Mbps; -70dBm @54Mbps
RF Max Output Power		802.11b : 16.5±1dBm 802.11g : 14±1dBm@54Mbps; 15±1dBm@48Mbps; 16±1dBm@6~36Mbps
Range		Max outdoor range up to 150m, line of sight
Security		802.11i security: WEP64/128, TKIP(WAP-PSK) and AES (WPA2-PSK)

802.11e QoS	1 TX queue but selectable AC for user's application data
WIFI Power Saving	Supports 3 WIFI power saving modes in normal operation of Infrastructure mode with auto-wakeup timer for upcoming Beacon frame reception. . typical Power Saving Mode . Fast Power Saving Mode . Maximum Power Saving Mode
Protocols Supported	Supports IP/TCP/UDP/ICMP/IGMP Checksum and ARP in hardware; supports TCP, UDP, ICMP, IPv4, DHCP, BOOTP, ARP, DNS, SMTP, SNTP, UPnP, PPPoE, HTTP in software.
Firmware Upgrade	Supports In-system Programming(ISP) for initial Flash memory programming via UART or TCE adaptor; supports reprogrammable boot code or run-time firmware through Ethernet, WIFI or UART interface (US Patent Pending)
Management	Internal web server, Serial login, Telent login or Windows application utility

Dimension Diagram   unit: mm

PDA-WIFI

PDA-WIFI-X