G4 Generation-4 SBUS

Universal Infra Red code Emitter with built in 2A current sensor and cyclic function. The innovative current sensor Idea check if the electronic equipments is running or is turned off to prevent sending Power Toggling IR code as example. Each module Can save up to 255 IR codes then can be used for Home theater equipment, HVAC, Media systems at living rooms, Curtains control, and several other devices.
**Added function: Bigger screw terminals, Broadcast button, and mini USB firmware upgrade port.

technical data **G4**

Universal Coded
IR Emitter can save up to 255 universal unique IR codes

Current Sensor
Accept 2A Maximum Load, used usually to detect if equipment is operational or off, like TV, DVD, Set top Box ++

Macro Function
If used with SB-Logic2-DN, the following functionalities can be acquired: multi systems Macro ability, Cyclic Start point ability to reset macro even if changed manually by user using his remotes. (e,g. Watch DVD, Listen to Music, Watch TV)

Control IO
1 x Advanced RS485 S-BUS serial port links (both train & screw link types)

Upgrade IO
1 x mini USB port (to connect to special programming board)

User Controls
· LED status indicator/channel
· Diagnostic LED+ BROADCAST

Programming
· Advanced Software Configuration & Programming

Compliance
CE Mark EMC

Operation Protection
· BUS Rv. Polarity Protection
· BUS Short Circuit Protection

Applications
The IR Emitter has successfully proved its ability in control of many 3rd party IR controlled systems like: HVAC, Curtains, Drapes, TV's, DVD's, Set Top Sat Boxes, Stereo equipment, AV receivers, Projectors...etc.

IR code learning
Must use SBIRL-kit "IR-learner" to encode all devices IR needed.

SBUS DC Supply
24VDC with flexible tolerance between 8-32VDC. Flexible ability to add power supply as to be needed any where Power consumption: 15mA

Installation
· universal Mount Ready

Operating Environment
0° to 45°C ambient temperature 20% to 93% RH

Enclosure material
Polycarbonate,

Dimensions & Weight
W 46mm x L 46mm x H 16mm
Packed weight 0.06 kg

control compatibility **G4**
· all standard universal IR enabled equipment (that can be controlled using IR signals)

commercial **G4**
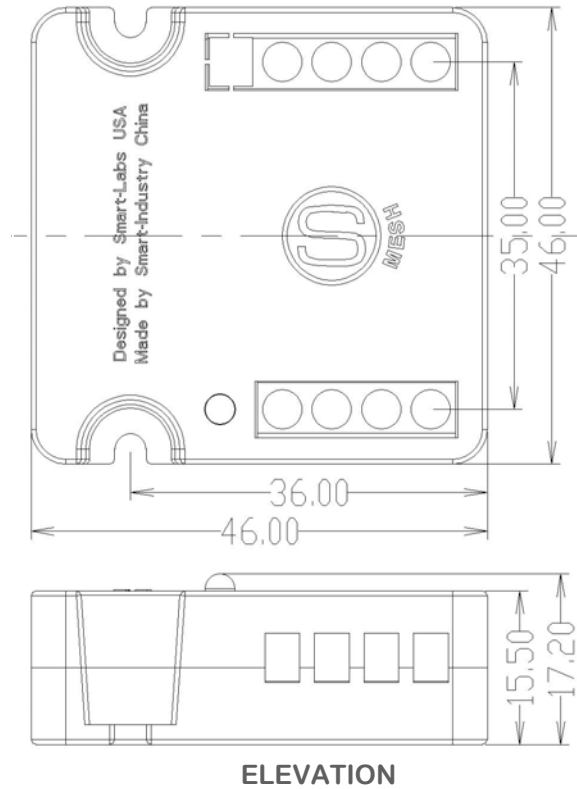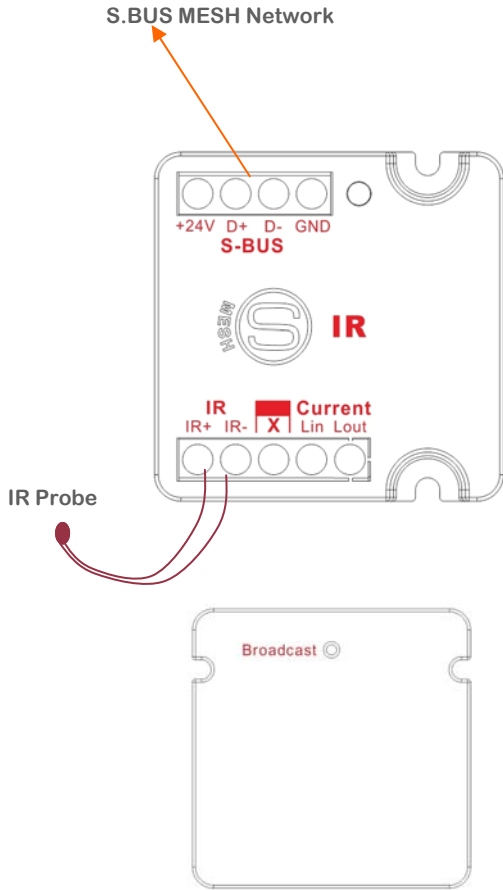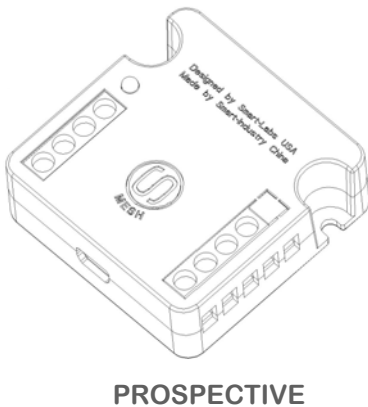GTIN (UPC-EAN): 0610696253774
Patent P. No: 201110123081.0

connection diagram **G4**

S.BUS MESH Network

+24V D+ D- GND
S-BUS

IR

IR | Current
IR+ IR- | X | Lin Lout

IR Probe

Broadcast

mounting dimensions **G4**

Designed by Smart-Labs USA
Made by Smart-Industry China

35.00
46.00
36.00
46.00
15.50
17.20

ELEVATION

PROSPECTIVE

SIDE VIEW

S-BUS connection **G4**

IR
S-BUS
GND D- D+ 24V+

CAT5e UTP Cable

Copper 98%
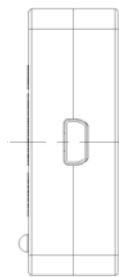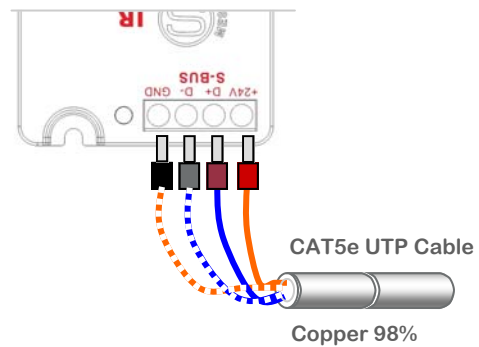
UTP core colors **G4**

S.BUS +24V	orange
S.BUS GND	w/orange
S.BUS D+	blue
S.BUS D-	w/blue
Spare	green
Spare	w/green
Spare +12v	brown
Spare -12V	W/brown