SMART**HOME**BUS

G4 Generation-4 SBUS

Universal Infra Red code Emitter with built in 2A current sensor and 10 Macros (each accept 50 IR codes) with built in 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. Built in Current Range to Enable checking of 2 Device Operation
**Added function: Bigger screw terminals, Broadcast button, and mini USB firmware upgrade port.

technical data **G4**

Universal Codes
IR Emitter can save up to 255 universal unique IR codes. Macro IR Code delay between 0.1 sec-10 Hours

Current Sensor
Accept 2A Maximum Load, to detect Media equipment operation. (2 Device Current range Logical Check Enabled)

Macro Function
Built in 10 Macros (Each accept 50 IR Codes) with multi systems, Cyclic Start point ability. And Delay between IR Codes. (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
ROHs, CPT, SABS

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 8-36VDC. 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
APS Polycarbonate,

Dimensions &Weight
W 46mm x L 46mm x H 16mm
Packed weight 0.08 kg

control compatibility **G4**
· all standard universal IR enabled equipment (that can be controlled using IR signals) Like Split AC, TV, DVD, Projector, Motorized Blinds & Projection Screens ++
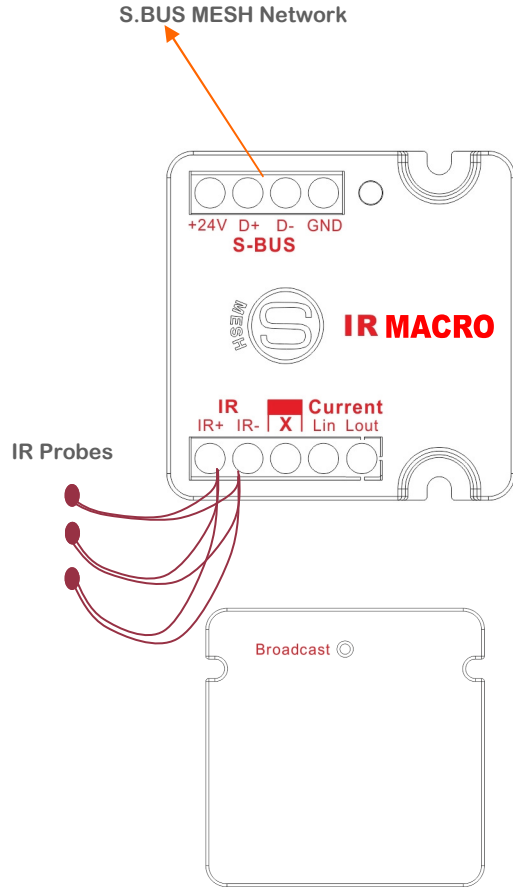
commercial **G4**
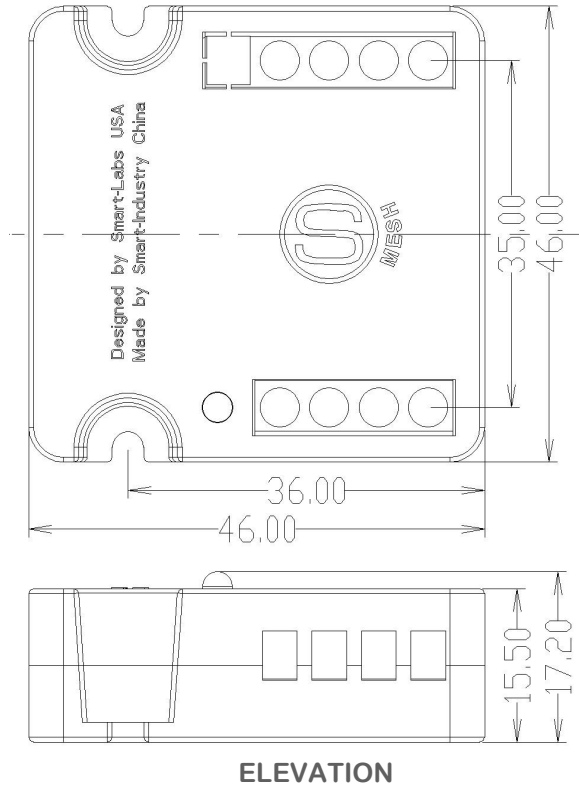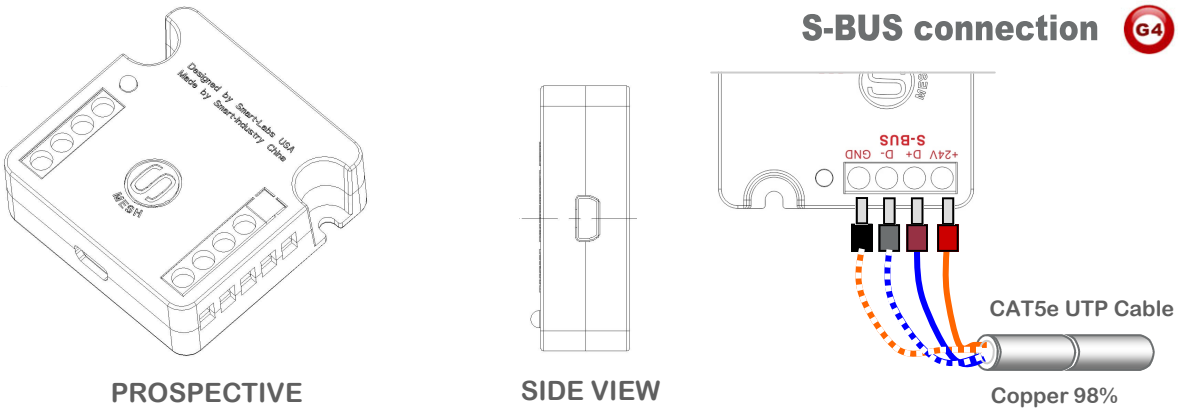GTIN (UPC-EAN): 0610696254993
Patent P. No: 201110123081.0

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connection diagram **G4**

S.BUS MESH Network

+24V D+ D- GND
S-BUS

IR MACRO

IR Probes

IR			Current
IR+	IR-	X	Lin Lout

Broadcast

mounting dimensions **G4**

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

MESH

35.00
46.00

36.00
46.00

15.50
17.20

ELEVATION

PROSPECTIVE

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

MESH

SIDE VIEW

S-BUS connection **G4**

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

SMART GROUP

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РСТ

RoHS

CE