



SMART G4

ADVANCED LIGHTING CONTROL SYSTEM

2020

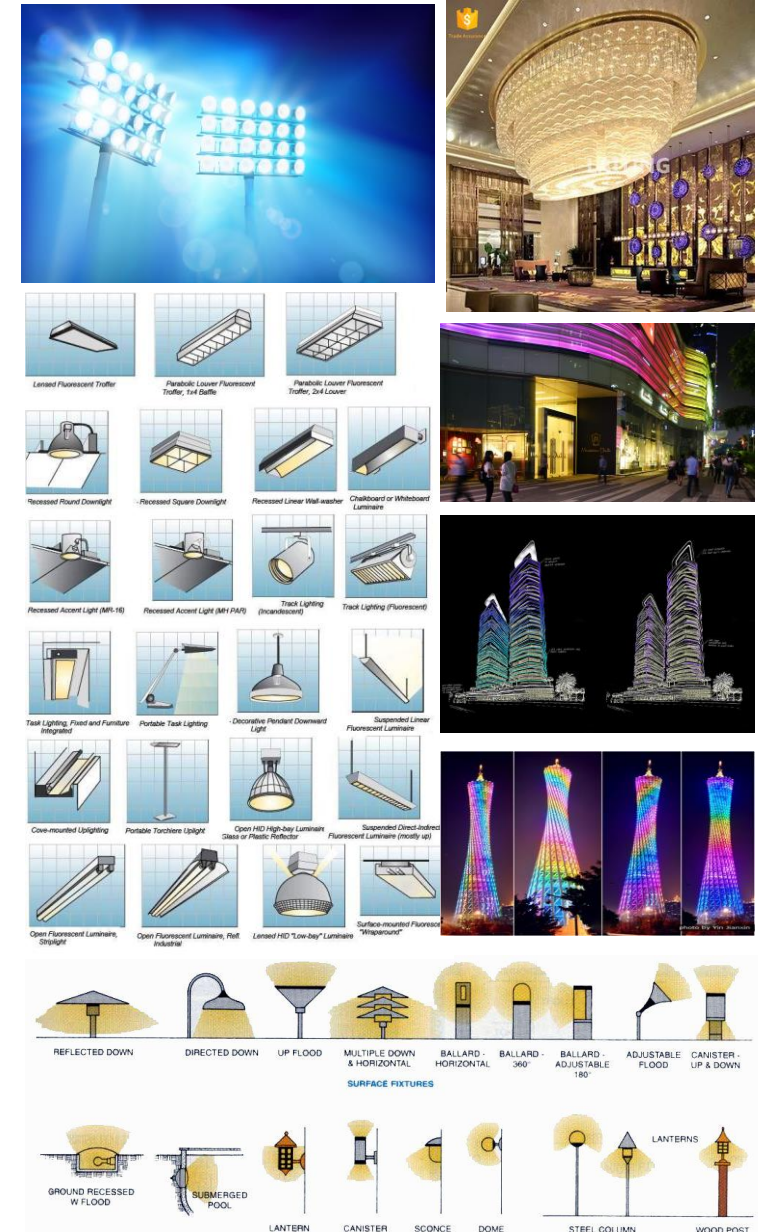




Advanced Technology

The Smart G4 is one of the Most advanced lighting control systems available today due to:

- Ability to Control Almost Any Light Type or Fixture
- Ability to handle Heavy Lighting Loads Direct
- Flexible control ways and visualization methods
- Advanced Features: Scenes, Ques, Sequence, Modes, Presets ++
- Multiple Protocols enabled with Bridges
- Open Protocol for Easy integration
- Long runs up to 2.3 KM Distance on S-BUS Cable before going again into LAN Network to gain additional Distance
- Communication Speed
- Easy Topology & unlimited Qty of Addressable Channels



Lighting Control Expertise

We can Control lighting as per the need of the Lighting-Designer and for any Quality project:

- Home: Interior Lighting, Spa, Cellar, Garden, Pool, fountain, Garage, Fence, & Façade
- Hotel: Intelligent Lighting, Outdoor, Indoor
- Commercial: Parking, Lobbies, Exterior Dynamic Lighting, corridors, & work spaces
- City Towers and malls: Dynamic Mode Lighting, Light Shows, Musical fountains
- Museums: Occupancy based, Dynamic Lighting based on show timeline, Detailing
- Stadiums: Big Lighting Control, Speed in control, show control, etc.
- Hospitals: Public Areas Lighting, Room Lighting, Clinics, energy saving ++
- Prayer Halls and Statues:
- Tunnels, Bridges & Streets: Occupancy based, time, logic, traffic, occasion based & more...

We control Light Elements, Channels and behavior. Brightness, Color, Direction, Shape, Speed, and other combinations based on designer needs.





Flexible Control and Monitoring Abilities

Smart G4 is Designed with the most flexible control abilities available today. It also provides 2-way monitoring and control as well as logging that helps in advanced analytics needs.

Some of the control Ways possible when using smart G4 system:

- Manual Switches: Can use any normal Dumb Switch for any type of control needs
- Digital Smart Panels: Backlit with Dynamic Displays text and pictures for different light types, moods ++
- Lighting Desk: Using Professional Lighting Desk
- LAN and WIFI Control: Using PC software, Laptops, Handheld and Wall Tablets, show control servers ...
- 3G/4G/5G: on the Move Control using Smartphones, iPad, Tablets ++
- Handheld remote Control and universal remotes: One press can trigger any scenario
- SMS: 2-way control, handshake and reporting
- Event driven and Logic control: Intelligent Lighting
- Timer Schedule: By Different Day type and Season
- Voice commands: Toya, Alexa, Google, Siri, and other



G4 Available Lighting Controllers

- Wall Mounted Smart Dimmers 10AX3Ch. & 20A per channel/FoldX2 Ch.
- DIN-RAIL Mount LE Dimmers 1ChX10A, 2ChX6A, 4ChX3A, 6ChX2A, 8chX1.5A per ch.
- Universal TE Dimmers 4chX2A per channel/fold.
- Sine-wave Rack Dimmer Tray for Advanced stage Lighting ++
- LED Driver RGBW 4ChX1A, and LED Booster 3ChX10A per channel
- 0-10V Intelligent locate 1chX16A Ballast Control, standard DB DIN-Mount 6chX16A
- Dali24 For Dali Lighting Ballast Control and Dimming
- DMX48 / DMX 512 for Stage Lighting and show lighting control Desk
- RS-485 Lighting Control and RS-232 Lighting Control
- Dry Contact Lighting control integration and IR Receiver commander
- DIN-Rail Mount Powerful Relay: ESLR 4chX20A, ESLR 6-8chX16A, 8,12,16chX10A
- DIN-Rail Relay: 10chX2A, 24chX2A and 28ch.
- Mini-Relay and Trail Click: 2chX2A , 3chX1A, 1ChX16A, 2chX5A, 3chX5A
- Mix Modules: DIN Mix24 (4Dim+20RelayX2A), TC (2D1R, 1D2R) Dimmer 2A, Relay 5A



System capacity

We can Call the Smart G4 system almost limitless because we can have 250 Different Networks, Each Network can have 250 Subnets and Each subnet can have 250 Devices

That means Smart G4 can have up to 15.5 Million Devices. Here is the Channel Ports Capacity of Smart G4 Lighting System:

- Can Have Maximum of 125 Million Dimmer Addressable Channels/Ports/Folds
- Can Have Maximum of 62 Million LED RGBW Addressable Channels/Ports/Folds
- Can Have Maximum of 370 Million Dali Addressable Channels/Ports/Folds
- Can Have Maximum of 430 Million Relay Addressable Channels/Ports/Folds
- Can Have Maximum of 150 Million Mixed Lighting Channels and Sensors
- Can Have Maximum of 890 Million Mixed I/O controls and inputs





Lighting and Occupancy Sensors

Smart G4 has designed Lighting enhancement sensors for every application Need

- PIR Sensors
- LUX light intensity Sensor
- People Counter
- Octopus Seat/Bed Sensor
- Microwave sensor
- Ultrasonic Sensors
- Heart Beat sensors
- Low Energy Bluetooth Sensors
- Bio face recognition sensors for special applications like PWD
- Current sensors (for metering and for Reporting Location and Qty of Burned Light Bulbs)

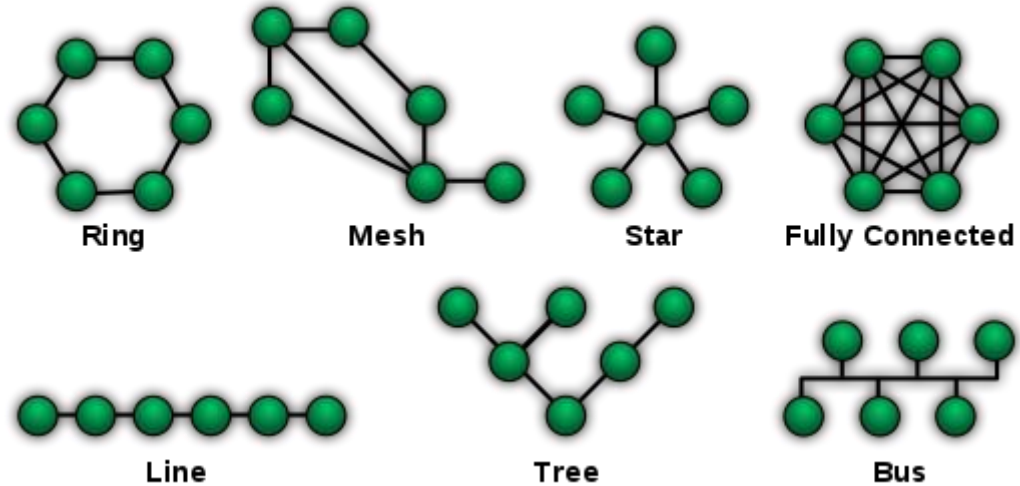




Lighting Control System Wiring

Remarkably, Smart G4 Lighting control System has the most flexible wiring possibilities:

- Daisy Chain Topology (accepting both: Closed Loop and Open loop without need for any end of line terminator)
- Star Topology
- Grid Topology
- Mix of all above



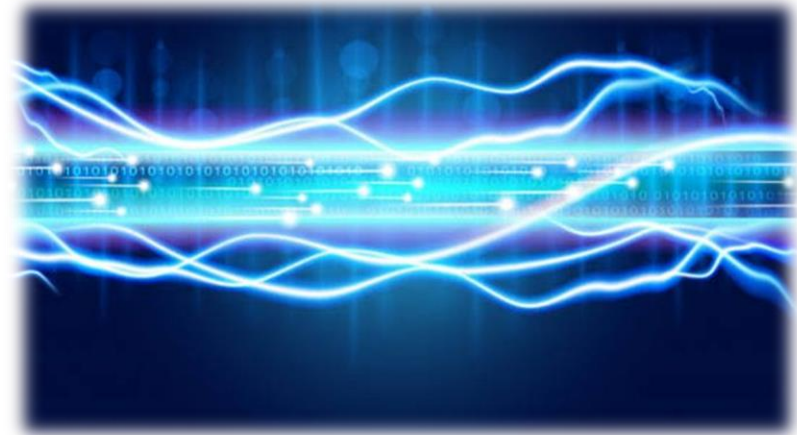
More remarkable is the Distance that can reach 2.3KM on S-bus cable with the flexible ability to add Power supply on the go.

Protection and Voltage

S-BUS G4 Lighting Devices are built to last a lifetime with perfect operability

Accordingly it was designed with the following built in Protection:

- Overheat Protection
 - Overload protection
 - Reverse Polarity Protection
 - Short Circuit Protection
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- Also It has Operation ELV voltage range ability between 9VDC-48VDC
 - And can control Lighting between 80VAC-250VAC





Software and APPs

Smart Group partners and RnD has designed several Apps and Software to help monitor and control in full ease and flexibility with multiple users and locations:

- Smart Cloud Configurator Software
- HAC PC software
- The amazing Show control SW
- GBMS (Visualizing SW)
- Dashboarding and analytics Add on Services
- Metering, Current monitoring and Maintenance SW Add on service
- Airbus, G4 HD smart-Bus G4, Simple Image App, SB-Iridium, and Many other apps.





Open Protocol and Assistance

Smart-BUS G4 Protocol is an Open Protocol for Developers and integrators We provide its low level Deep commands to signed partners under Secure NDA.

We Provide the following SDK:

Simulators

DLL

Protocol Documents

Examples

Source codes

In-House Training and assistance

And Available to Purchase Kits





Support, QC and Warrantee

Smart G4 University has online forums and Groups to fully support 24/7 globally

We do three Types of Preparation and backup for our partners:

- Training workshops and Certification for designers and installers
- On-line training and videos and webinars
- On-Site QC inspection

- We also Support remotely using Team viewer
- Telegram, what's app and wechat



All Smart G4 Lighting Controllers go under 10 levels of Quality inspection during the manufacturing process.

All our products come with factory warrantee of 24 Months, extendable locally by local installer/integrator.

We also assure availability of spare parts for 10 years after phasing out any product model



Contact our Partners

For best service, kindly contact our Smart-G4 official partner nearest to you



www.smartg4.com