SMARTHOME BUS

THE BEST CHOICE FOR HOME AUTOMATION

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INTRODUCTION TO SMARTGROUP

- Established in USA since 1986
- SmartGroup is a group of following entities:
 - Smart Labs: Involved in research and development of hardware and firmware
 - Smart Soft: Providing Software support
 - Smart Industry: Involved in Manufacturing of Smart-Labs products
 - Smart Solutions: Involved in creating Smart Industry products and partnering with manufactures to provide complete solution packages

INTRODUCTION TO SMARTGROUP

- Where is SmartGroup found?
 - USA for concept
 - Denmark for Design
 - Germany for Engineered parts
 - Dubai for Lifestyle Functionality
 - China for Parts assembly and Mechanical Tooling Technology

INTRODUCTION TO SMARTGROUP

SmartGroup is a member of the following organisations:

















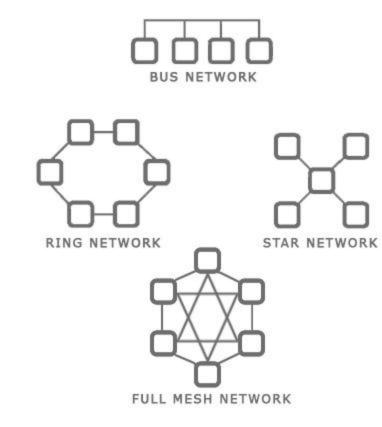






WHAT IS S-BUS?

- Smart-Bus or simply S-Bus uses 4-Pair twisted pair data cable to control, monitor and command devices simultaneously.
- Up to 250 devices can be connected on one cable with a maximum length of 1200m
- Devices can be connected in the following topologies:
- Voltage Range: 8-32V
- Device consumption: 20-32mA



S-BUS EVOLUTION









SMART-BUS Generation 4 (G4)

G4 as Compared to the old Smart-BUS:

- Easier and More Flexible Installation
- Elegant Finishes and Materials
- Easy Backup and Restore for All Devices
- 25 Language Configuration Support
- Each Device has Multi Features and multi-Usage
- (Less Equipment)
- More Compact Devices and Wider range of ideas
- □ Faster response, Bigger Device Memory

SMART-BUS Generation 4 (G4)

G4 Compared to any other Systems:

- One Complete Solution from one Manufacturer and a single control Protocol
- Most Flexible Wiring system and Materials available today
- Unmatchable Number of Devices that can be installed in a single Network
- Simplest Manual Programming Ever made available to a Luxury System (7 Seconds without PC)
- Real Open Protocol, and Easy Seamless Integration

SMART-BUS Generation 4 (G4)

Reasons to choose G4:

- Available, Stable & Widely tested
- Affordable
- Elegant to extreme Luxury
- User friendly
- Expandable
- Easy Wiring
- Fast Programming and configuration
- Continuous Research & Development
- Excellent Support
- Expanding Global Network

SMARTHOME SOLUTIONS

SPEAKERS

General System Diagram

CABLES

S-BUS A/V DC24V

SPEAKERS

TOUCH SCREEN



REMOTE CONTROL

IPHONE & IPAD

BLACKBERRY ANDROID SCREEN

SMARTBUS SOLUTIONS









Smart Hotel GRMS

Architectural Intelligent Lighting

Smart Yacht Solution

Smart Home









Smart Prayer Hall

Smart School

Smart Hospital / Smart Clinic

Intelligent Building









Smart Club

Smart Restaurant

Smart Mall

Musical Fountains and Show Control





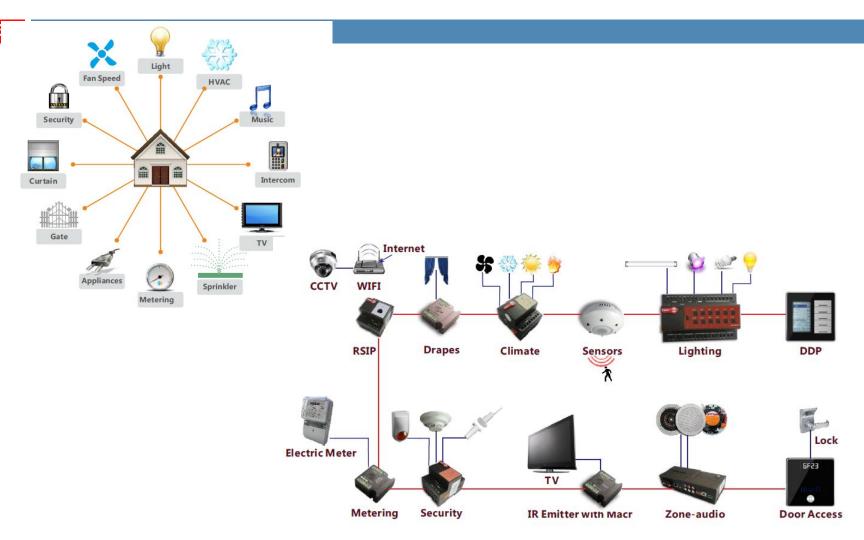




Smart Spa / Smart Resort / Smart Beauty Salo on

Smart Congress Halls, Towers, and Banks

HOME AUTOMATION USING SMARTBUS



SMARTBUS LIGHTING CONTROL

- Type of Dimmable loads:
 - Incandescent
 - CFL
 - Halogen
 - Dimmable LED

(Note: Light must be dimmable by Manual Dimmer)

- Fluorescent
- Neon tube
- Metal Halide

(Note: Ballast must be dimmable, controllable and addressable type)

- □ Dimmer modules exists in 1, 2, 4, 6 and 8 channels
- Each channel can be rated 1A, 2A, 4A, 6A up to 10A, depending on models

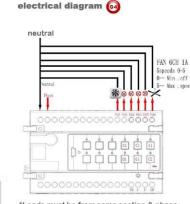


SMARTBUS HVAC CONTROL

Fan Speed Controller – can handle up to 5 speeds

HVAC Climate Control module used with Fan Coil Unit,

Air Handling Unit and VAV systems



*Loads must be from same section & phase

















SMARTBUS CONTROL PANELS

- Dynamic Display Panel (DDP) is an intelligent switch that can be used to control:
 - Lighting and Mood setting
 - HVAC
 - Blind control
 - Security & Alarm system
 - Music





CDP

SMARTBUS CONTROL PANELS

- Touch-Switch
 - Using Touch-type button to
 - Control lights
 - Elegant design with glass face
 - Retrofit solution for homes and hotels





Other switches with different fascia available:







IR REMOTE CONTROL

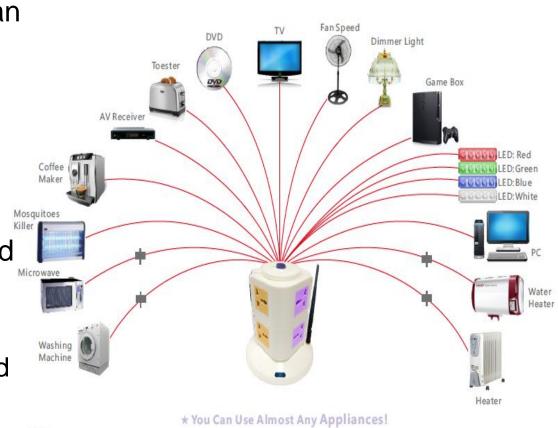
- One remote control for several purposes:
 - Lighting
 - Curtain control
 - HVAC
 - Music
 - Security



SMART POWER STRIP

Contactor

- Universal sockets that can be used to control many appliances
- 6 Sockets rated 5A each
- 2 Lighting (Dimmable) sockets rated 1A each
- Sockets can be controlled using
 - S-Bus network
 - WIFI-enabled tablets and smartphones
 - Handheld IR Remote control



SENSORS

In addition to standard PIR sensor, SmartHome provides All-in-One sensors, E.g. 9 in 1 Multifunction sensor that has following:

- Motion sensor
- Light intensity sensor
- Infrared receiver for IR remote control,
- 360 degrees IR transmitter to control equipment like TV, DVD, etc...,

9 in 1 Multifunction Sensor

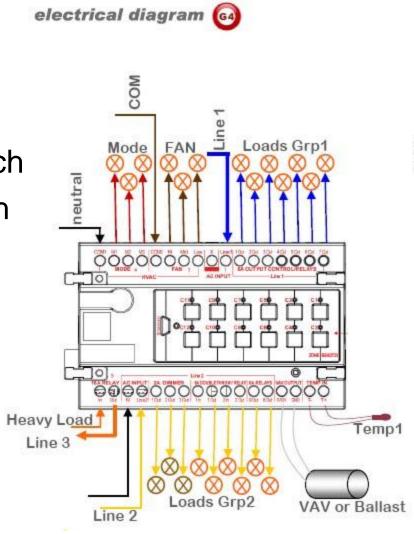
- 2 Dry input contacts for Safety & Security systems
- Built-in Temperature sensor
- 32 logic lines for programming purposes

EXAMPLE FOR SENSOR APPLICATIONS



SMARTHOTEL SOLUTIONS

- Single Control module designed to handle the needs in a hotel room:
 - 3 Dimmer channel rated 1A each
 - 9 Relay channels rated 6A each
 - 4 Relays for motorised curtain control
 - 1 Relay rated 16A for boiler
 - HVAC module for FCU/AHU



SMARTHOTEL SOLUTIONS

Touchpanel for Smart Hotel guest system that can

be for the following applications:

- Lighting control
- Scene control
- Curtain control
- Temperature control







SMART APPS

- System can be also controlled by smartphone (Apple/Android)
- Screenshot of Smart Home App



Cameras Main Menu Metering



Z-Audio Security Media

SMART APPS

Screen shot of Smart Hotel App









House Keeping



Smart TV



Room Service



3RD PARTY INTEGRATION

- SmartBus allows for other industry protocol used by other manufacturers to be integrated to S-Bus system, namely:
 - □ RS-232
 - □ RS-485
 - KNX
 - DALI
 - DMX
 - ZIGBEE

