



KNX/EIB Home and Building Intelligent Control System

Engineering Power Systems International Limited

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Green Life in GVS

Vision:

To serve human being by means of technology, make intelligent life into thousands of families

Mission:

To supply customers with the most competitive products and services;
To provide the best development space for staff;
To grow into highly respected international enterprise.

Core values:

Innovation, Responsibility, Factuality, Participation



> About GVS

Company Introduction

Guangzhou Video-star Group (GVS for short) was established in 1999, which owns Guangzhou Video-star Electronics Co., Ltd. and Guangzhou Video-star Electronics Industry Co., Ltd. GVS commits itself to provide products related with intelligent home and building system as well as video door phone systems. At the same time it provides architectural-integration solution for intelligent communities. It has become one of the largest manufacturer and solution-provider among peers of the intellegent building and safety industry in the world.

GVS always strives in line with the idea of "market is centre, profit is core and competition is power" to provide top-ranking solution for customers with independent research and development, innovative technology and superior services. It consistently tries to create comfortable, secure, green and intelligent life.



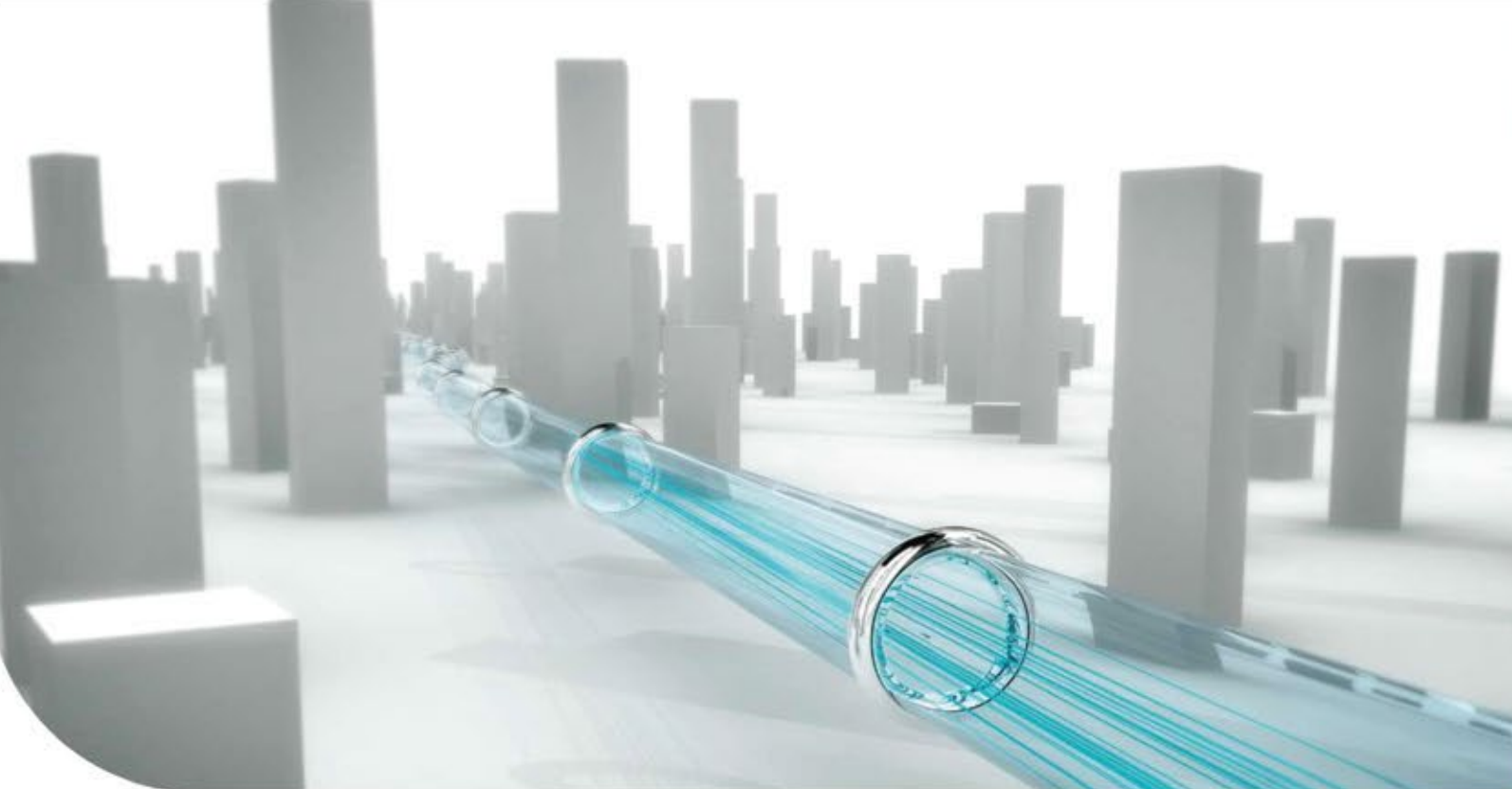
Expertise and technology for intelligent building control system

GVS started developing the KNX/EIB lighting control products from scratch in the wake of becoming KNX member in 2008 strategically, which offered a new era for the company to step into the intelligent building control system industry. As a result, GVS rapidly delivered a vast range of products basing on KNX/EIB technology, whose expertise covers every area of building control including lighting dimming, lighting switching, shutter controlling, multi-protocol gateway, intelligent sensing, user interface etc.

On the ground of providing the best competitive products to customers, GVS always opts for the first-class and well-certified components to secure the quality of the products. All our products were, are or will be tested by CE conformity and KNX association. On the other hand, GVS always invested the upper-advanced production and inspection equipment to further ensure the quality of the finished products, such as compact high speed chip shooter, hot air reflow soldering, dual wave soldering environment test machine, standard high temperature ageing room, vibration testing machine and so on.

GVS not only strictly complies with the quality requirement of ISO9001:2000 system and RoHS compliance system, but also adopts ERP system and PDM system for years.





> GVS Sales Network

Global Reach

GVS serves customers in more than 100 countries across Europe, Australia, Asia Pacific, the Middle East and Africa.

GVS delivers comprehensive services to the system integrators, distributors, architects, real estate developers and house owners etc.

GVS is committed to assisting customers worldwide with their unique needs by providing them with comprehensive, value-added, integrated solution and professional, personal service. GVS employs the industry's largest and best-trained sales-and-service force, which advises and assists customers in meeting a full range of various needs.

GVS is entitled to offer trust-worthy, reliable relationship to the collaborative partners. So far GVS have strategic partners in Singapore, Malaysia, Australia, UAE, UK, Norway, the Netherlands, Russia, Italy and Turkey.

Management Philosophy

Market is centre, profit is core, and competition is power



> Honor & Certifications



Certificate of KNX Member



Certificate of ISO 9001:2000



IECQ Certificate of Conformity



CE Certificate of Universal Interface



CE Certificate of VS-2000



CE Certificate of Dimmer Actuator



CE Certificate of Switch Actuator



CE Certificate of Power Supply

Honor & Certifications



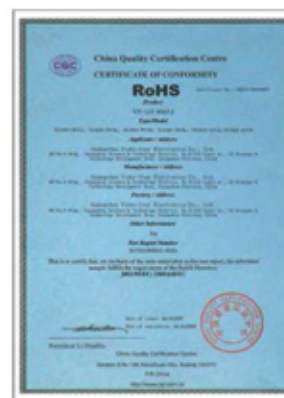
CE Certificate of Sensor



TUV Certificate of PV Module



KNX Certificate of Power Supply



RoHS Certificate of TFT-LCD Modules



KNX Certificate of 1 fold Dimmer



KNX Certificate of 2 fold Dimmer



KNX Certificate of 4 fold Dimmer



KNX Certificate of 4 fold Universal Interfaces



KNX Certificate of 4 fold Switch Actuator



KNX Certificate of 8 fold Switch Actuator



KNX Certificate of 12 fold Switch Actuator



KNX Certificate of Sensor BP,2-fold



System Advantages

Energy saving | Reliable
Safety | Comfortable

Blind and Shutter Control

- Group & Central Control
- Sun Tracing
- Climate Enhancement
- Wind and Rain Protection
- Preset Positioning
- Automatic Programs
- Safety Modes

Operation and Visualisation

- Switches / Push Buttons
- IR Remote Control
- Smart Phones
- Computers
- Web Servers

Heating, Ventilation & Air Conditioning Control

- Individual Room Control
- Timed Operation Modes
- Valve Drive Control
- Fan Coil Units
- Central & Automatic Control
- Safety Programs
- Floor Heating
- Electrical Heating

Security and safety

- Intrusion
- Technical Faults
- Door access
- Presence Simulation
- Fault Monitoring
- Supervision
- Smoke Detection
- Technical fault
- Preventive Technologies

Lighting control

- Light Scenes
- Timing Control
- Automatic Lighting
- Switching & Dimming
- Central Lighting Control
- Constant Light Control

Audio/video control

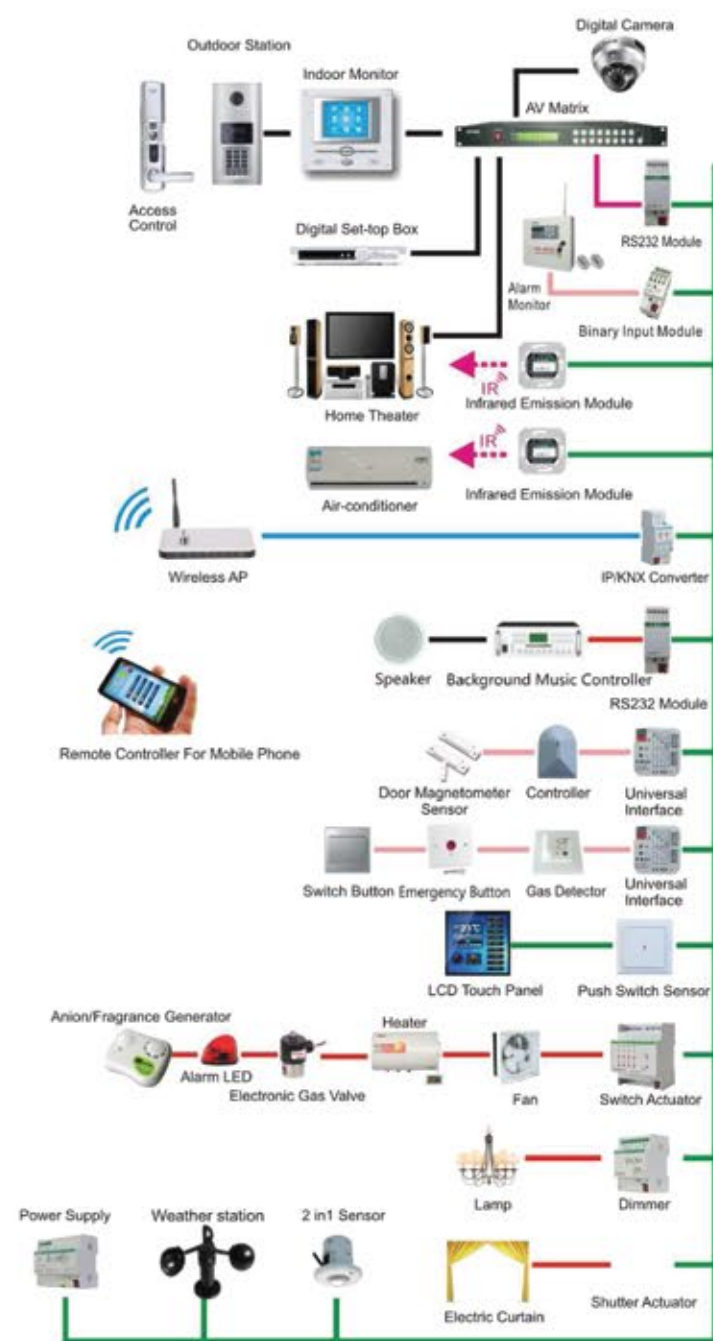
- Remote control of music from everywhere within the house.
- Remote control for every single room.

Automation and Remote Access

- Logical Functions
- System Supervision
- Remote Control
- Messaging
- Timed Functions
- Internet Access
- Remote Programming



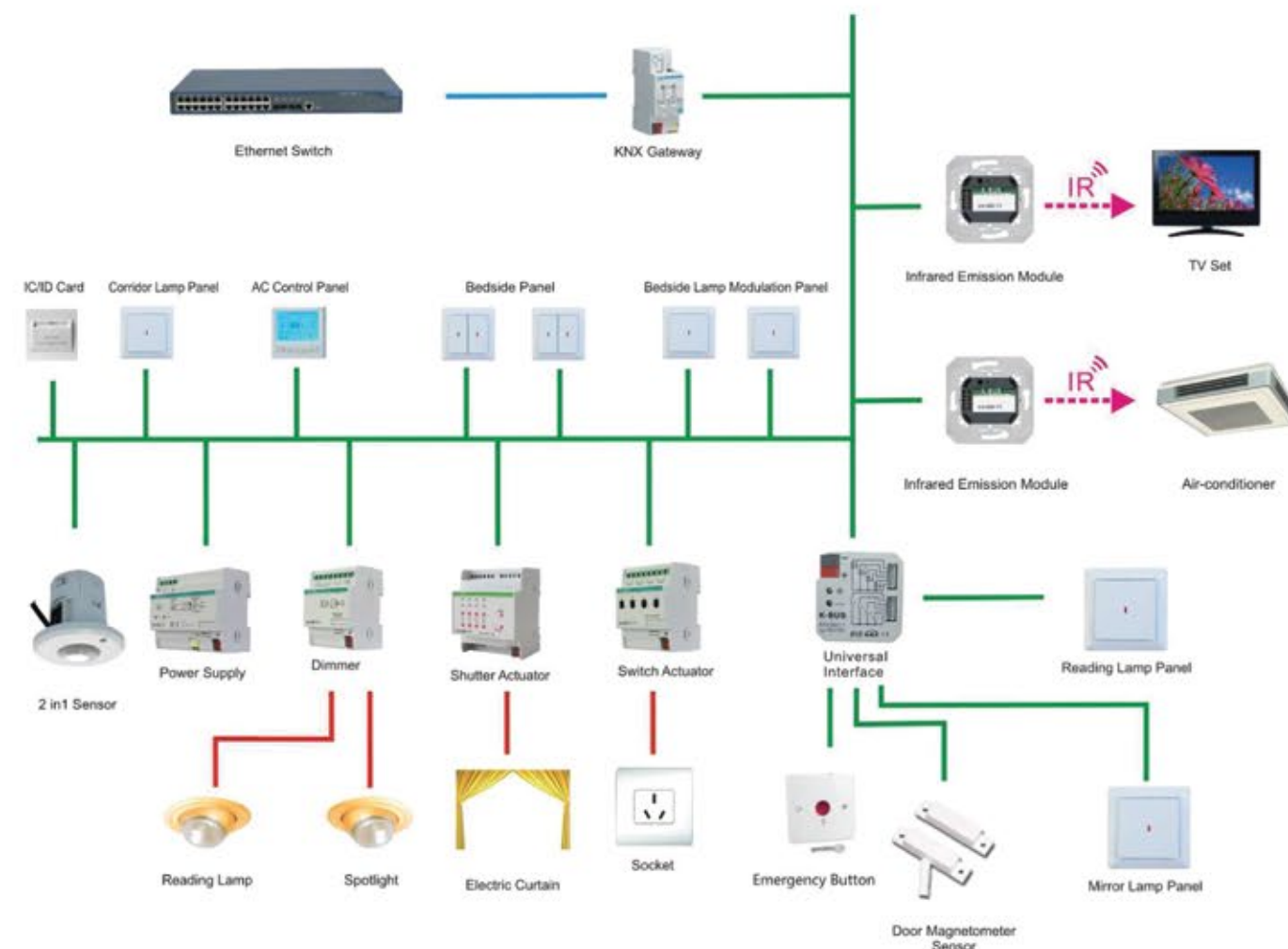
Smart Home Solution



Example



Smart Hotel Solution

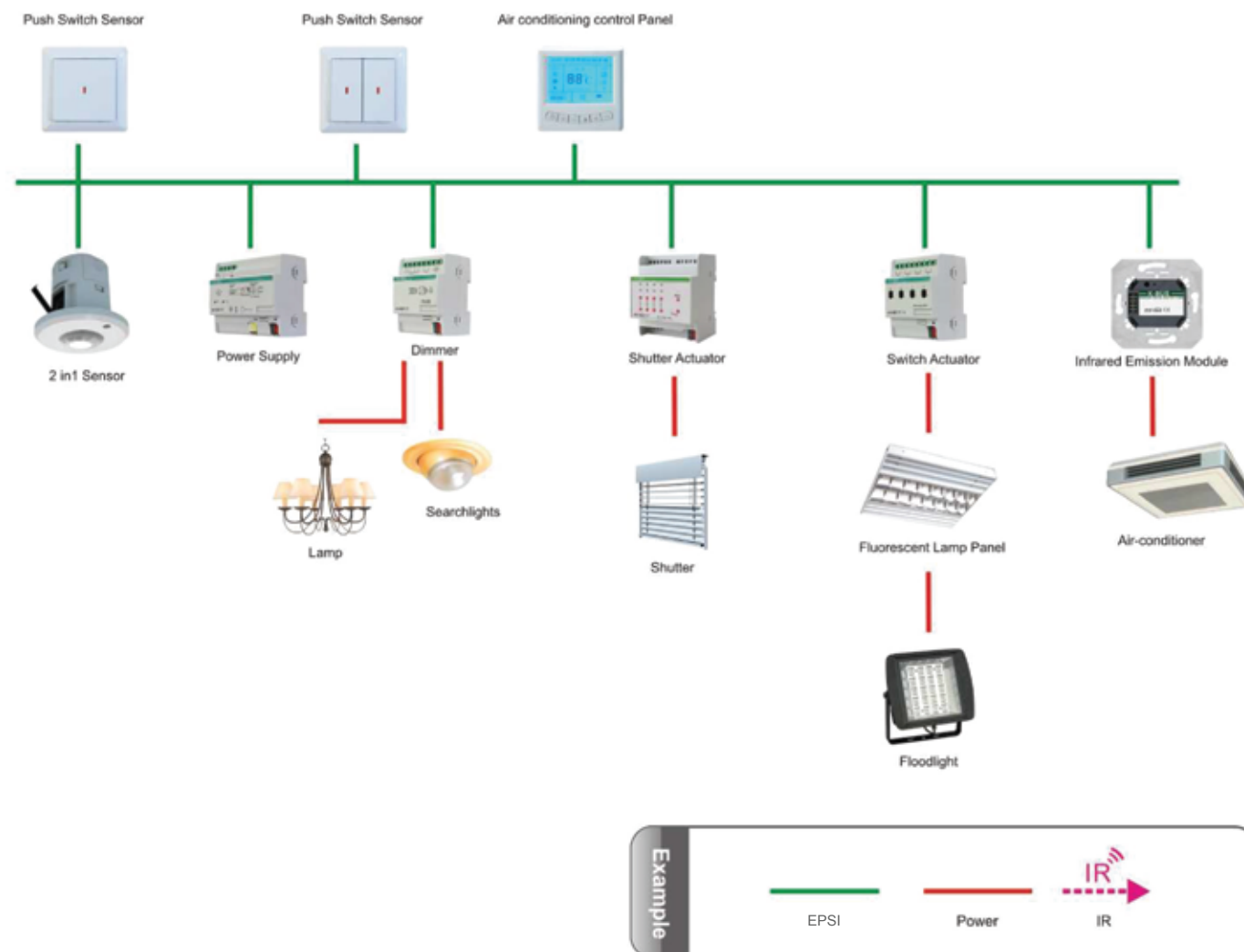
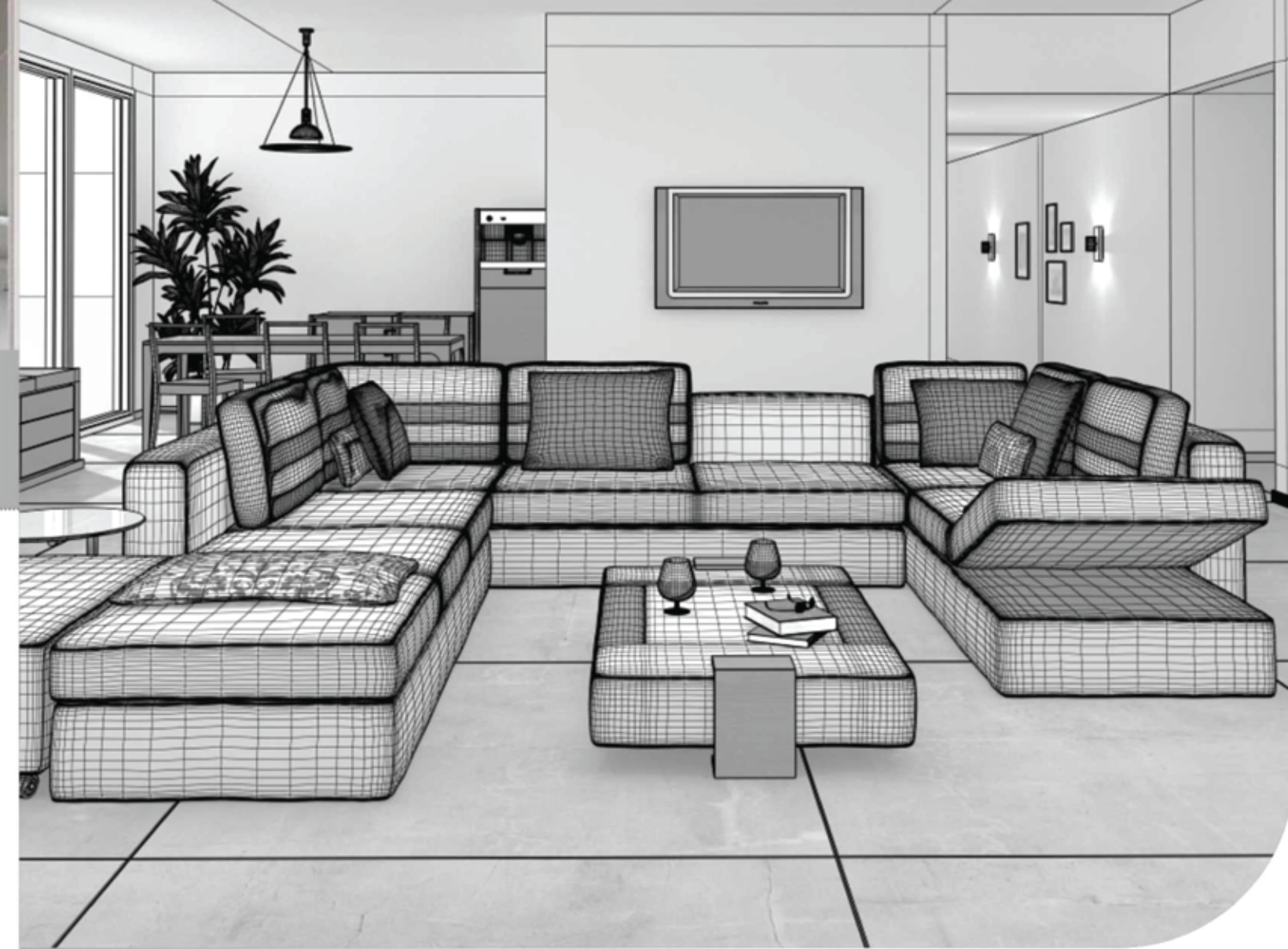


Example





Smart Building Solution



ENGINEERING
EPSI Products
POWER SYSTEMS INTERNATIONAL LTD

- ◆ Intelligent Panel Series
- ◆ User Interface
- ◆ Dimmer Actuators
- ◆ Switch Actuators
- ◆ Inputs
- ◆ Physical Sensors
- ◆ Converters
- ◆ System Components



5" TouchScreen
Intelligent Panel

Technical Parameter

CPU :	800MHz
RAM :	DDR 256MB
FLASH ROM :	256MB
Operating system :	kdroid, based on Linux, kernel version:2.6.38
Dimension :	122X78mm
Support SD/MMC	
Capacity touchscreen	

Functions

- The firmware can be upgraded via SD Card;
- Multitask system, all the interface configurable, the number of the main catalogs theoretically has no limit but we recommend the number set to less than 256 for the consideration of user-experience;
- The home screen and the sub-interface support fluid page transfer;
- The number of buttons on sub-interface limited to 20, can be split to two pages; The function of the buttons can be configured via ETS;
- Screen saver can be configured: Clock or Album, the time can be configured;
- Connect to KNX network directly, doesn't need any converters
- Switch, dimming, Scene, Curtain, Temperature, Timing



Technical Parameter

Power supply :	Operating voltage 21~30v DC, made available by the bus
Current consumption :	Max.12mA
Power consumption :	Max.360mW
Temperature range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C

Functions

- Programmable RGB LED
- Switching sequence
- Scene with storage function
- Switching, dimmer
- Short-long operation
- Multiple operation
- Blinds & Shutters, value sender
- RTC operation

Optional models



CHKP-01/01.1



CHKP-02/01.1



CHKP-03/01.1

Optional colors



White matt



Silver matt



Yellow matt



Green matt



Pink matt



Black matt



Smart Home Control Software
for Android

Technical Parameter

System :	Android 1.6 and above with Wifi and SD card
Screen Resolution :	480*800, 480*854

Functions

• Switching	• Air-conditioning	• Security	• Scene	• Blinds & shutters
• Dimming	• Background music	• Value sender	• TV	



Common Functions



Room Select



Lighting Control



Blinds & Shutter



TV Control



TV Control



Security



Air-condition



Scenes



Background music



Video surveillance



Function select



1ch Dimmer Actuator

EP/D0103.1

Dimension: 71.5mmX90mmX60mm



2ch Dimmer Actuator

EP/D0203.1

Dimension: 143mmX90mmX60mm



4ch Dimmer Actuator

EP/D0403.1

Dimension: 214.5mmX90mmX60mm

Technical Parameter

Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max.12mA
Power Consumption :	Max.360mW
Operating/Display :	Red LED and push button for assigning the physical address Green LED flashing means the device working normally
Outputs :	1ch/2ch/4ch
Output Parameter :	230VAC(50/60Hz), dimming via phase control
Max. Load :	500W/ch (under the environmental temperature of 45)
Min. Load :	20W
Power Consumption :	Max.5W/ch
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Installation :	on 35mm DIN rail

Functions

- Control switch state of the lamp
- Relative dimming function
- Control intensity values of the lamp
- State report, error report
- 15 scenes setting
- Staircase lighting function with end indication
- Reset function
- Preset function, save preset function



4ch Switch Actuator

EP/R0416.1

Dimension: 71.5mmX90mmX60mm



8ch Switch Actuator

EP/R0816.1

Dimension: 143mmX90mmX60mm



12ch Switch Actuator

EP/R1216.1

Dimension: 214.5mmX90mmX60mm

Technical Parameter

Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max. 12mA
Power Consumption :	Max. 360mW
Operating/Display :	Red LED and push button for assigning the physical address Green LED flashing means the device working normally
Outputs :	4ch/8ch/12ch
Rated Voltage Current :	250VAC(50/60Hz)16A
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Installation:	on 35mm DIN rail

Functions

- Manual operation available
- Time functions, on/off delay
- Scene control/presets via 8bit/1bit commands
- Logic operation AND, OR, XOR, gate function
- Status response
- Forced operation and safety function
- Reaction to threshold function
- Control of electro thermal valve drives
- Selection of preferred state after bus voltage failure and bus recovery
- Staircase lighting functions with warning and adaptable staircase lighting time



Brightness & Moving Detector

CSBP-02/00.1

Technical Parameter

Power Supply :	Operating voltage 21~30 V DC, made available by the bus
Current Consumption :	Max.12mA
Power Consumption :	Max.360mW
Operating/Display :	Red LED and push button for assigning the physical address Green LED flashing means the device working normally
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	91mmX74mmX76mm
Installation :	Ceiling installation

Functions

- Threshold function
- Lux measuring range:1lux~65535lux
- Movement measuring range: high sensitivity (4m~5m)
low sensitivity (5m~7m)
- Lux output with 3 types of output data
- Motion detection output with 3 types of output data
- Motion detection with 10-grade of sensitivity
- With master and slave sensor control function
- Logic operation,AND,OR,XOR etc.

Technical Parameter

Power Supply :	Operating voltage 21~30 V DC, made available by the bus
Current Consumption :	Max.12mA
Power Consumption :	Max.360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	91mmX74mmX76mm
Installation :	Ceiling installation

Functions

- Measurements of temperature and humidity
- Dew point temperature, Absolute humidity and Enthalpy can be selected to output as required
- Maximum and Minimum temperature can be selected to output or reset
- Sensor alarm when Temperature, Humidity, Frost temperature and Dewpoint temperature over the setting values
- Various temperature set point adjustment modes
- RTC(Room Temperature Controller) function
- Two-position controller for rel. humidity
- PI control function



**Sensor,
Temperature & Humidity**

CHTH-00/00.1



Universal Interface, 4-fold
KI/U0401.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max.12mA
Outputs :	4ch LED output(Max.2mA/ch)
Power Consumption :	Max.360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	46mmX46mmX11.7mm
Installation :	in 60 switch box
Input :	4ch passive push button
Operating/Display :	Red LED and push button for assigning the physical address Green LED flashing means the device working normally

Functions	
•	Switching and dimming function
•	Forced output function
•	Invoke and storing of scenes
•	Switching sequence function
•	Counter function
•	Operation of various loads by multiple push button actions
•	Control of blinds and shutters
•	Trigger an LED for reporting an operation



Binary Input, 4-fold
CTBI-04/00.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max.10mA
Power Consumption :	Max.1.8W
Outputs :	4ch
Input Voltage Un :	0~265V AC/DC
Input Current In :	Max.2mA
Operating/Display :	Red LED and push button for assigning the physical address Channel LED indicates the relevant input status Manual operation pushbutton to modify the relevant input Manual/Auto LED for the status of the manual/ auto mode
Dimension :	71.5mmX90mmX60mm
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Installation :	on 35mm DIN rail



KNX/RS232 Protocol Converter
BTCC-02/232.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max.12mA
Power Consumption :	Max.360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	64mmX90mmX36mm
Installation :	on 35 mm DIN rail

Functions	
•	Support up to 64bytes telegram, total 128 commands
•	Trigger the telegram sending via group address
•	2 3-wire standard serial port, not support flow control, connect the serial device via screw
•	The two serial port independent each other, both the communication rate, stop bits, and parity can be programmed
•	The max. communication distance: 15m
•	Support predefined serial communication protocol, control the serial device



KNX/IP Protocol Converter
BTIC-01/00.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max.12mA
Power Consumption :	Max.360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	64mmX90mmX36mm
Installation :	on 35mm DIN rail

Functions	
•	Support TCP/IP protocol, work in TCP server mode
•	Transparently transfer all the telegrams
•	Support up to 10 TCP connections at the same time
•	Send the TCP telegram to the KNX/EIB network, control the KNX device
•	Monitor the EIB telegram, send them to all the clients connected
•	Read responded telegram will send to the initiator only
•	To read and write any data type defined in the KNX standard



KNX/RS485 Protocol Converter
BTPT-01/485.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max. 12mA
Power Consumption :	Max. 360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	64mmX90mmX36mm
Installation :	on 35mm DIN rail

Functions	
<ul style="list-style-type: none"> Opening protocol for the RS485 communication interface Control the KNX devices via RS485 using a pre-defined protocol Convert the RS485 bus packets, assembly to EIB telegram, sent to the KNX/EIB network, control the KNX devices ACK report, Execute result report Support monitor and filter Programable baud rate To read and write any data type defined in the KNX standard 	



4ch Shutter Actuator
AWBS-04/00.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current Consumption :	Max. 12mA
Power Consumption :	Max. 360mW
Temperature Range :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C
Dimension :	64mmX90mmX72mm 143mmX90mmX60mm
Installation :	on 35mm DIN rail

Functions	
<ul style="list-style-type: none"> Movement UP/DOWN Block Forced operation LED display Stop/Louvre adjustment Scenes Automatic sun protection Set preset position (modification of the preset position during operation) Move to position 0...100% Adjustment louvre to position 0...100% (only Blind working mode) Monitoring of wind, rain and frost protect (cyclical) Two operation mode, Venetian Blind and Shutter Status display of the current position, status display of the current operating mode 	



AWBS-04/01.1



Power Supply, 640mA
KP/D30.640.1

Technical Parameter	
Power Supply :	195-255V AC+10/-15%, 47~63Hz
Power Consumption :	Max. 45VA
KNX output :	1
Auxiliary Voltage Output :	1ch
Auxiliary Rated Voltage :	30V DC+1V, SELV
Rated Current :	640mA, short circuit protection
Sustained short-circuit current :	Max. 1.3A
Maintained Time after Power-off :	200ms
Dimension :	108mmX 90mmX60mm
Installation :	on 35mm DIN rail
Safety Degree :	Ip20, ENA60529



Infrared Transmitter to learn
BTIS-03/10.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC, made available by the bus
Current consumption :	Max. 12mA
Power consumption :	Max. 360mW
Temperature range :	Operation -5°C~+45°C Storage -25°C~+55°C Transport -25°C~+70°C

Functions	
<ul style="list-style-type: none"> Learn the IR commands via group address, using a LED to indicate the result Support up to 400 IR commands Manager all the IR commands via group address IR command store pellucidly, send pellucidly Long distance , max. 10m 3 folds, independently programmable 	



Logic Operation Module
CALC-00/00.1

Technical Parameter	
Power Supply :	Operating voltage 21~30V DC made available by the bus
Current consumption :	Max. 12mA
Power consumption :	Max. 360mW
Temperature rang :	Operation -5°C~45°C Storage -25°C~55°C Transport -25°C~70°C

Functions	
<ul style="list-style-type: none"> Up to 250 input and output objects With AND, OR, XOR, timer function Graphical editing function 	



Sentosa 4 Floor Villa in Singapore



Presidential Palace in Uganda



Villa Mouawad in Lebanon



White Place Farm in UK



Seri Pilmoor 110 Villas in Malaysia



Villa Atik in Lebanon



Luxury and extravagant Villas in Saudi Ara



Estonia National Historical Museum