



NF
25

CONNECTING
THE WORLD



NIAGARA FORUM APAC | 9-10 SEPTEMBER 2025



Jack Zhan

GVS SMART CO., LTD.

General Manager
Global Channel Sales Division

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UNIFIED BUILDING INTELLIGENCE

- When Niagara Meets the World's Most Installed Bus System KNX

01

KNX x Niagara x GVS

02

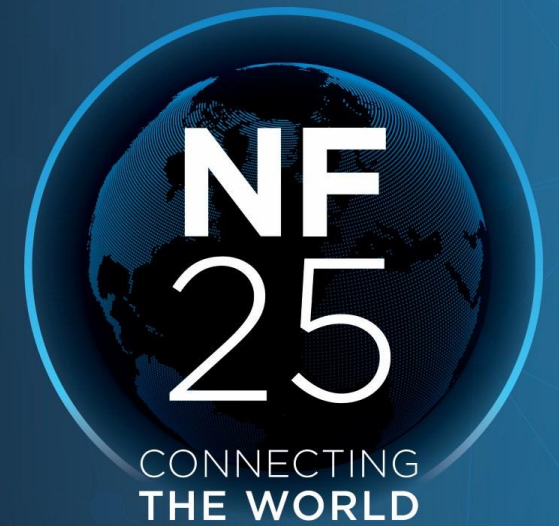
About GVS SMART

03

Partnership Opportunity

PART 01

KNX x Niagara x GVS



niagara

x

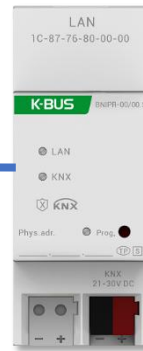


A Comprehensive Software Infrastructure/
Framework for Smart Building

The Only Open International Standard
Protocol/System for Home and Building Control



Powered by Niagara



KNX/IP Router



Lighting
control



Curtain
control



AC control



Ventilation
control



Floor- heating
Control



Background
Music Control



Scene
Control



Environment
Monitoring

Niagara provides cross-protocol
integration and cloud management

KNX provide rich field-level
real-time control

*** Already integrated with KNX**

Some facts about KNX



The World's Only Open Standard
for Home and Building Control

500

KNX Manufacturers



in 45 Countries
8000 KNX Certified Products

95323

KNX Partners



in 171 Countries

504

KNX Training Centres



in 72 Countries

161

KNX Scientific Partners



in 36 Countries

22

**KNX Userclubs /
Professionals**



in 20 Countries

24

**Associated
Partners**



45

**KNX
National Groups**



19

Test Labs



in 11 Countries

ETS Sold



in 145 Countries

Data as of 1. 2023



✓ National and International Standards

International standards, European standards, Chinese standards and U.S. standards

✓ KNX Ecosystem & Interoperability

500+ manufacturing members and 8,000+ interoperable products

✓ Stable System with Powerful Integration & Openness

Distributed system, each device operates independently, supports over 61,000 devices in a single system

✓ Long History and Wide Application

Nearly 35 years of global use; ranked No.1 in the global building automation market share

✓ Green, Energy-Efficient, and Highly Secure

Achieves up to 30% overall building energy savings; enhanced by KNX Secure technology to safeguard buildings

niagara

x

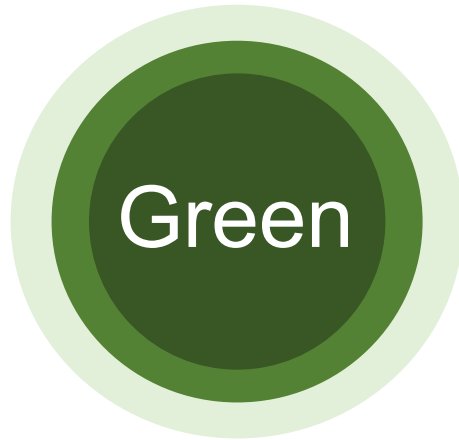
GVS

A comprehensive software infrastructure
/framework

Smart Space Solution Provider
specially for the headquarter/commercial building control

GVS KNX Smart Building Solution

Enable Net-zero, Healthy, and Secured Headquarters Spaces



Central Control Platform
Energy Dashboard
Presence Sensing
Brightness Adjustment...



Central Control Platform
Wellness Dashboard
Air Quality Data
Color Temperature Control...



KNX Secure Products 47+
VDE Certified Stack/products
Highest Level Encryption
Both IP and TP Data Secure

Value of GVS KNX Smart Headquarters Solution



Enhance Comfort & Seamless Control

Automated adjustment of HVAC, lighting, and shading creates a more comfortable and user-friendly work environment.



Integrate Automation & Efficient Operations

Centralized control of key systems improves management efficiency and reduces maintenance costs.



Energy Saving & Cost Reduction

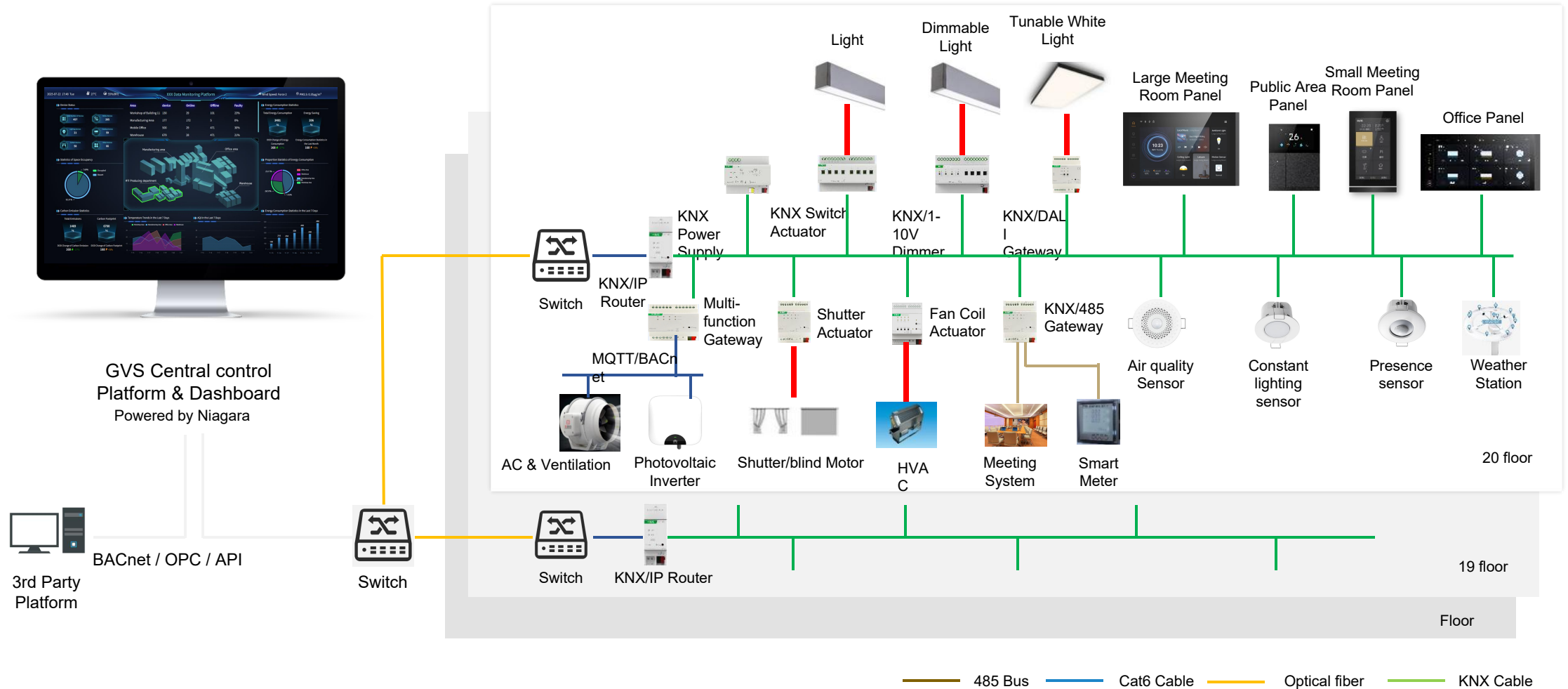
Smart control based on occupancy, daylight, and work scheduling significantly lowers energy consumption.



Practise ESG Strategy

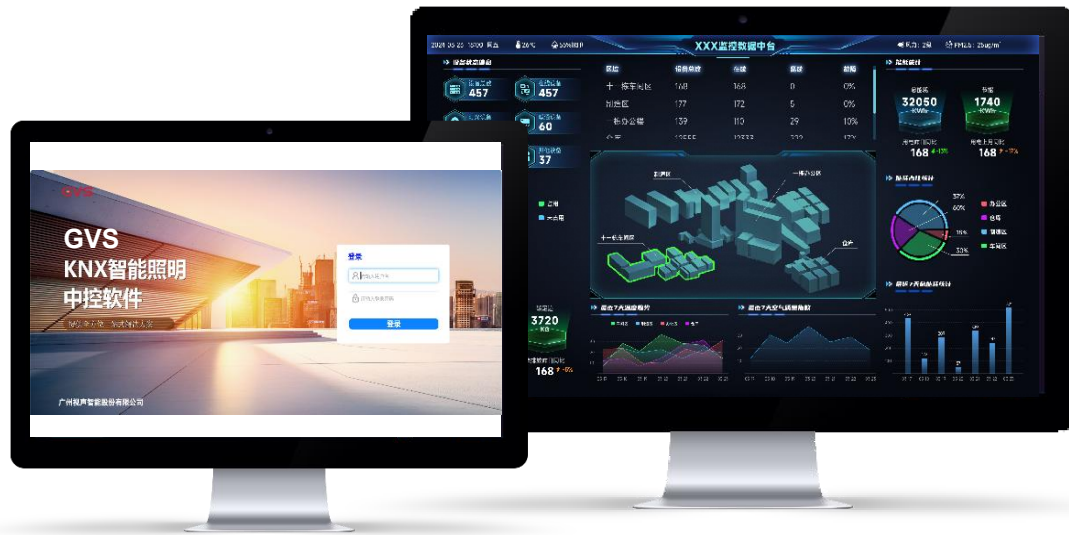
Intelligent space management contributes to green and healthy building goals, aligning with ESG commitments.

GVS KNX Smart Headquarters Solution Topology



Tailor-made Control Software GVS x Niagara

Powered by Niagara



Login Interface

Data Dashboard

➤ Powerful Data Platform

Built on the robust Niagara framework
Secure, stable, and reliable

➤ Enhanced Control Capabilities

Lighting, shading, HVAC control, and environmental quality monitoring
Preset scenes, timing control, logic functions
Conference system integration, device alarms, and fault diagnostics

➤ Diverse Interaction Features

Real-time data dashboard with energy-saving and carbon reduction metrics
Support multi-screen display on PC, tablets, and large screens
Customizable UI

➤ Open Compatibility

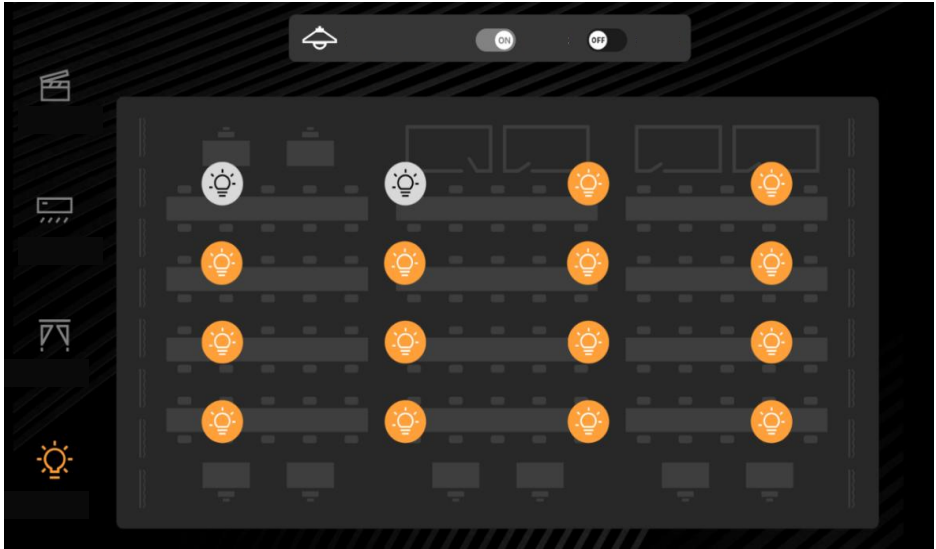
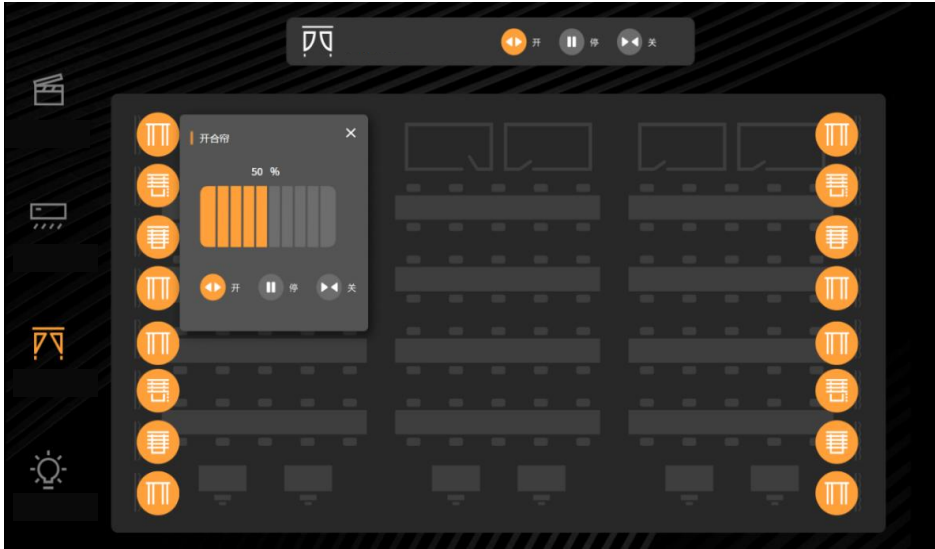
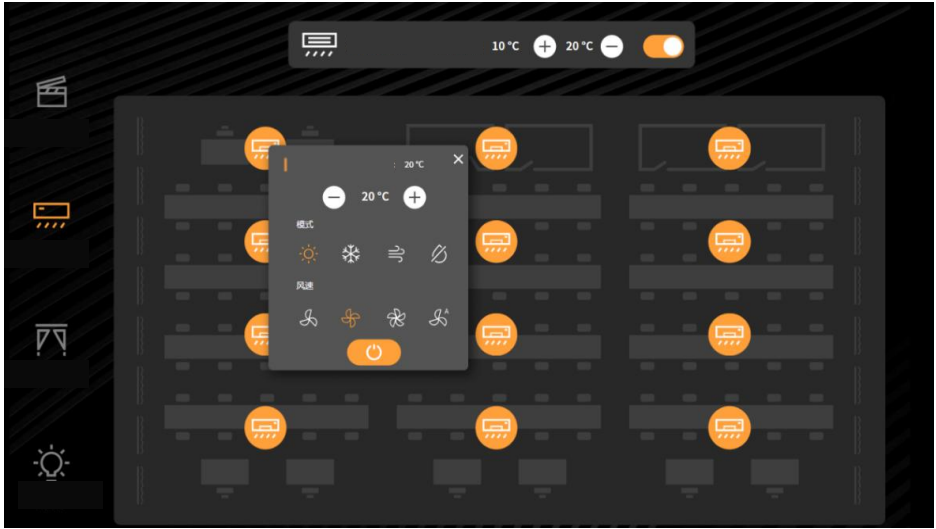
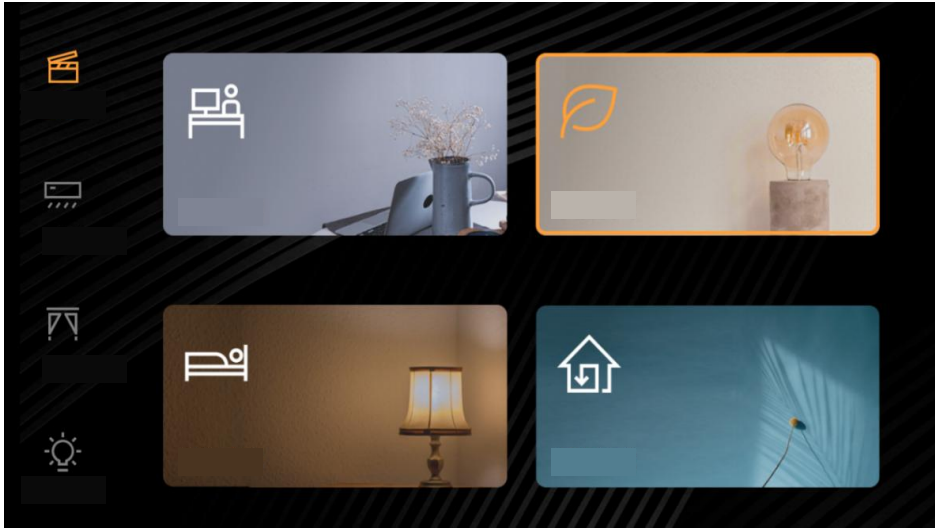
B/S architecture
Integrate BIM and 3D front-end visualization
Support BACnet, OPC, Modbus protocols

Dashboard of A Headquarter/Commercial Building



- Powered by Niagara

Flexible UI Customization on Smart Pad



- Powered by GVS/KNX

Typical Project Case - Enterprise Headquarter Building



China Overseas Group Headquarter

A net-zero intelligent building that has won:

- LEED gold certificate
- WELL gold certificate
- China nearly-zero energy design certificate
- China standard green building ★★★
- China standard healthy building ★★★



China green building certificate



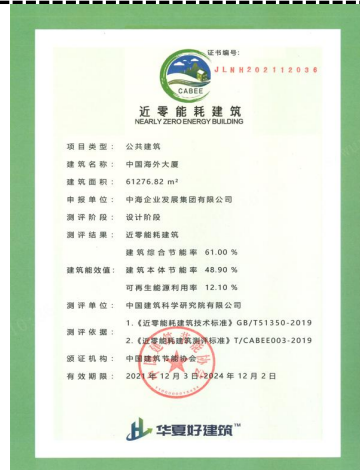
LEED Gold Certificate



Healthy Building 3 star certificate



China nearly zero energy design certificate



Multiple Certificate Won

Green Building
★★★

LEED Platinum

Net-Zero Carbon Building

Healthy Building
★★★

WELL Platinum

Nearly Zero Energy Building

Well Gold Certificate

Public area WELL Gold Certificate



4、16-19 floor WELL Gold Certificate



More Featured Projects



Xiaomi Intelligent Industrial Park



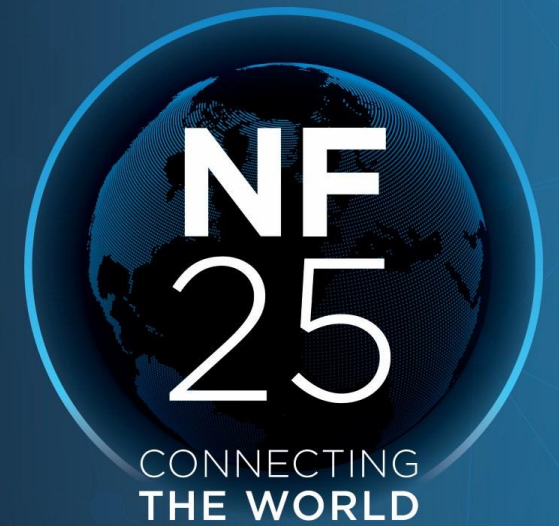
China Construction Third Engineering Bureau Headquarter



NEXWISE Headquarter

PART 02

About GVS SMART



GVS Smart Space Industrial Park



We aim to build:

- A benchmark for smart headquarters
- A factory that designed & built in automotive industry standards
- A modern factory equipped with automation in equipment, production, logistics, mobile management, data-driven etc.

Contributing to the “Carbon peaking/neutrality” Goals—
Delivering a Healthy, Energy-Efficient, and Secure Smart Living
Experience



* Currently under construction, expected open-up by 12.2026.

Evolution of GVS



GVS SMART CO., LTD.,

Established in 1999, GVS SMART CO., LTD. is one of the first companies for the R&D, production and sales of video intercom system and KNX building automation system in China.

As the ONLY listed company for KNX in China, GVS has been providing its global clients with high-quality products, integrated solutions and excellent services together with its 100+ agents world-wide, we are committed to "Make life smart, and smart simple"!

In 1999

GVS established



In 2008

GVS became the first KNX Member in China



In 2017

GVS became native board member of KNX China



In 2018

GVS became the first native president of KNX China



In 2023

GVS became the first listed KNX company in Beijing Stock



In 2024

GVS became a shareholder of KNX Association and KTB member



In 2025

GVS again become the rotating president of KNX China, more coming...



GVS - A Beijing Stock Exchange Listed Company

GVS®

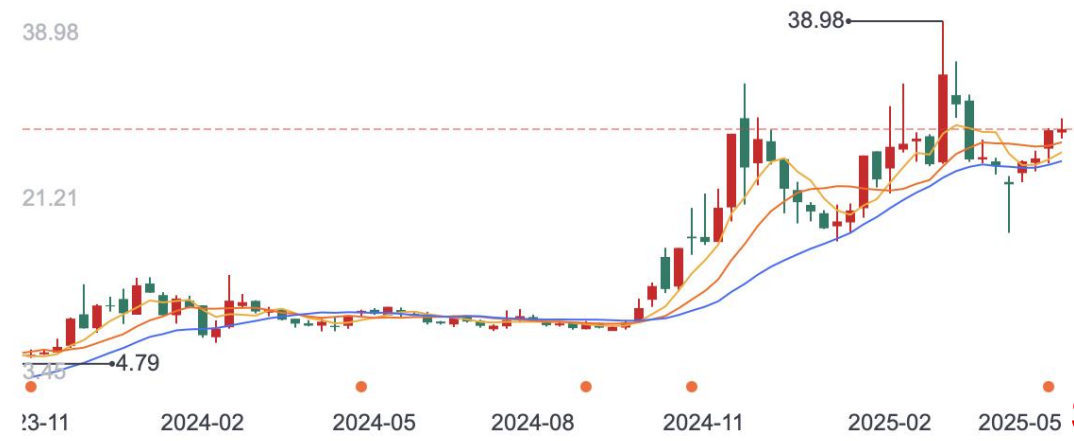
GOOD NEWS

The IPO application of
Guangzhou Video-Star Intelligent Corp., Ltd
was successfully approved by
the Beijing Stock Exchange Listing Committee!

Name: 视声智能

Code : 870976

26.06.2023





530+ staff



60+ agents/distributors

70+

Country & Region

5000+

Clients

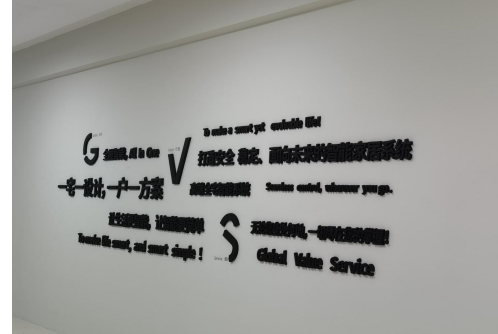
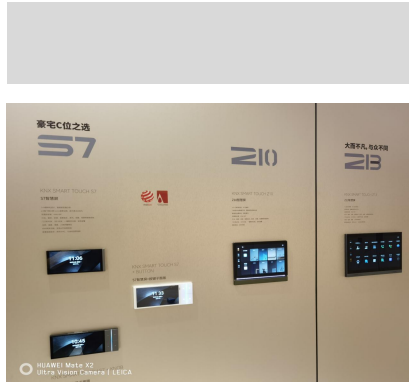
30M+

Products/Components shipped

10,000+

Projects installed

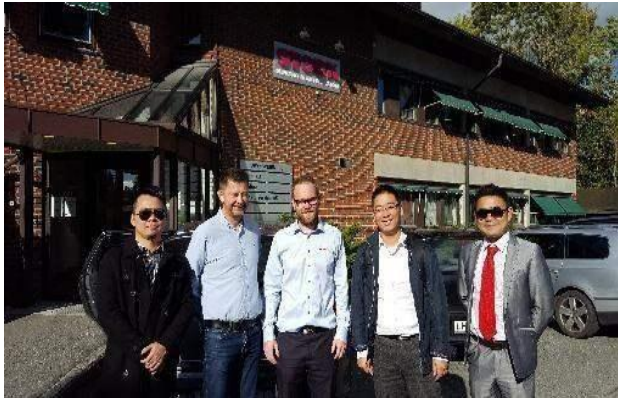
GVS Distributor Showroom in China



GVS Distributors Worldwide



Germany, Norway, Switzerland,
Sweden, Poland, Spain...



Turkey, Egypt, Algeria, Nigeria, India,
Pakistan, Iraq, UAE...



Malaysia, Indonesia,
Hongkong, Taiwan, Vietnam,
Singapore...





Light + Building in Germany



Secutech Vietnam



TSE in England



SIBT in Shanghai



GILE in Guangzhou



AHR in America

15 YEARS IN A ROW TO THE FRANKFURT LIGHT & BUILDING
We are the pioneer of KNX international market!



Scandinavia Luxury Apartment
Jakarta, Indonesia



SKY TOWERS
Erbil, Iraq



R sidence Marcel Marlier
Tournai, Belgium



Seri Pilmoor 110 Villas Kuala
Lumpur, Malaysia



Grand Hyatt Athens
Athens, Greece



Fairmont Marina Residences
Abu Dhabi, UAE



Falkensteiner Schlosshotel
Austria



Herbarium Hotel & SpA Gmina
Gasawa, Poland

ISO9001 Certified Factory



6,000m² Modern Workshop

SMT workshop, THT workshop, assembly workshop, test workshop, dynamic 10,000-level clean workshop and environmental laboratory.



Quality Control System

The production process strictly implements ISO9001:2015 quality management system and HSF requirements to meet customer needs as well as relevant decrees and regulations.



Production Capacity & Flexible Production

TFT screen 3.6 million pcs/year
TFT module 1.5 million pcs/year
Intercom products (including Nursing call system)
400,000 sets/year
Smart home products 560,000 units/year
11 lean production lines
Flexible production and capable delivery in large quantities with customization

CNAS & KNX Test Lab

- Accredited by CNAS and KNX International Association
- With experienced testing technicians to make sure scientific, accurate and fair test conclusions
- Effectively guarantees the stability and reliability of product performance



Safety
Test

EMC
Test

Reliability
Test

Environmental
Test



Compliance with
External Communication
Standards

Consistency between
Functionality and
Description

Interoperability with
other KNX Products

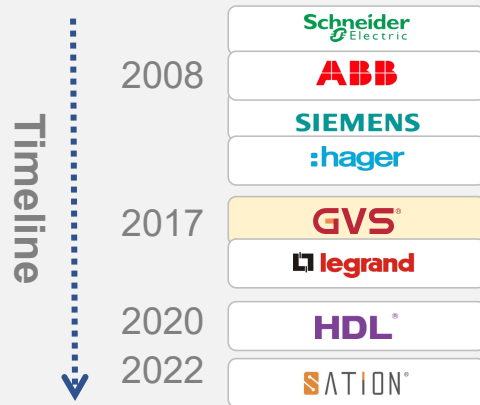


GVS, a pioneer in KNX Industry in China

GVS is a senior KNX member in China

- Earliest KNX member in China - 2008.
- 1st native board member of KNX CHINA - 2016
- President of KNX CHINA -2018, 2025
- 7 self-developed KNX Protocol Stacks
- No.1 KNX Secure factory in China

KNX China Council Members



Engaged in the conversion/drafting of multiple national standards.

- Initiated and directed compilation of the int'l standard IEEE1888.4 Green Smart Home and Building Control Network Protocol
- Presided and drafted the national standard Building Automation and Control System Protocol (GB/T 28847)
- Participated in compilation the of national standard Control Network HBES Tech Standardization – Home & Building Control System (GB/T 20965-2013)

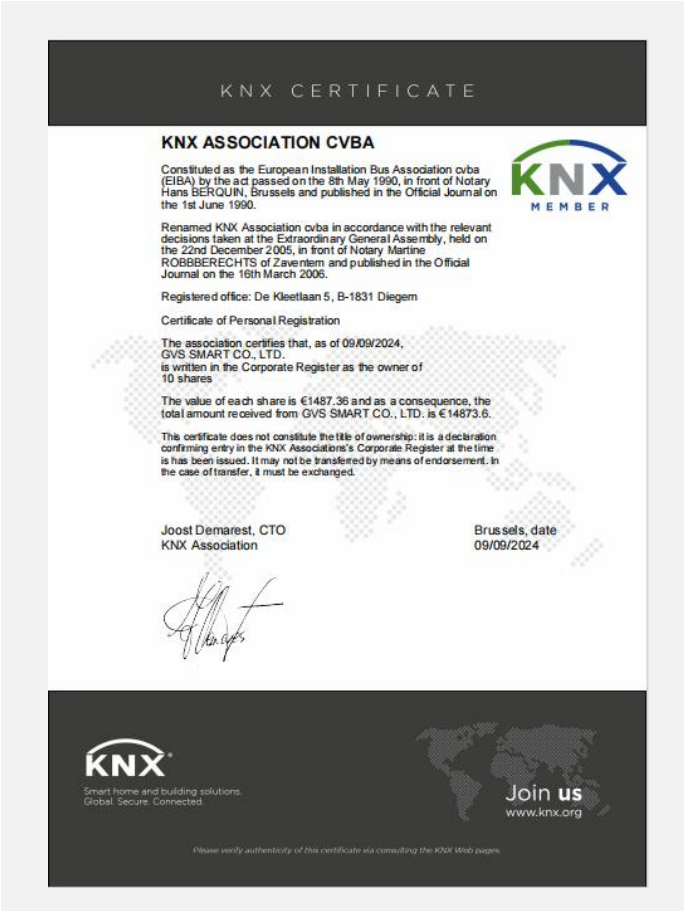


The cradle of KNX talents

- First authorized KNX Training Center in China -2010
- With largest number of KNX Tutors (14)
- 1st, 4th & 5th KNX Tutor Course held
- More than 70% certified KNX specialists in China are trained by GVS (70+ sessions).



GVS Role in KNX Association



KNX

WHY BECOME A MEMBER

MEMBERS

GET STARTED

DEVELOPMENT

HVAC

TECH

START-UP

Original Equipment Manufacturer

Known as "derived" in the KNX industry, OEM is an excellent approach to speed up the process to the market. OEM providers in KNX offer fully certified KNX devices that can be rebranded with another KNX Member brand, whilst maintaining the KNX certified logo. Companies that opt for this solution must apply for Licensee or Shareholder and request the Manufacturer Code once they obtain the membership. Below, a comprehensive list of OEM providers in the market.

Company	Link	Description
Tapko Technologies GmbH	www.tapko.de	TAPKO Technologies GmbH is a KNX pioneer with 30 years of experience in the development and complete production of OEM devices and technology. This enables other KNX members to enhance their product portfolios efficiently. TAPKO provides know how, design tools, software, hardware and KNX certification during product development and production. TAPKO's KNX communication stack (KAlstack) supports S and E modes on all common media. KAlstack has its own hardware development platform. As a full fledged KNX member, TAPKO has developed from a German specialist to an international manufacturer of OEM products. Tapko's focus is KNX system devices and couplers with KNX Secure technology. All our OEM Devices are KNX certified and CE conform. Our manufacturing in Europe is ISO 9001 certified and the staff is IPC trained. Overview KNX OEM Products
Guangzhou Video Star Intelligent Corp., Ltd	www.gvsmart.com	GVS was founded in 1999. It is the first batch of enterprises to enter the video intercom and smart home industry in China. For more than 22 years, GVS has continued to develop in the field of space intelligence. Its business covers smart homes, smart communities, smart buildings, smart medical care, smart hotels, rail transit and other fields, providing global customers with intelligent control and video intercom system products and integrated solutions. At present, more than 10,000 projects in more than 160 countries and regions around the world have realized intelligence. It is the world's leading provider of intelligent space system solutions. Has more than 400 employees, including 110 R&D engineers; established a KNX certified engineer training center in 2011, with more than 16 KNX tutors; we have 3 self-developed KNX protocol stacks, including KNX-0780 Secure: encryption and authentication communication mechanism, to ensure the security and reliability of communication; Also our OEM products have been certified by CE and KNX. Overview KNX OEM Products

A listed original equipment manufacturer

- GVS became a KNX Association Shareholder in 09, 2024
- GVS became KNX Technical Board (KTB) member of KNX Association in 11, 2024

NIAGARA FORUM
CONNECTING
THE WORLD

TRIDIUM

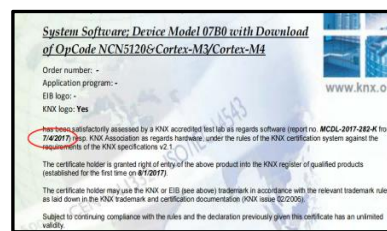
7 KNX self- developed KNX stacks with independent IP rights



KNX-0705

(Basic Function)

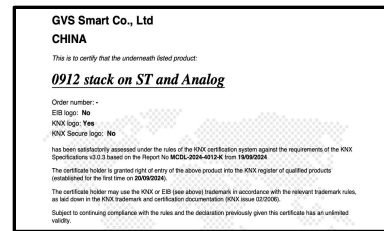
KNX TP application protocol stack, meets the product requirements of common application functions



KNX-07B0

(Advanced Function)

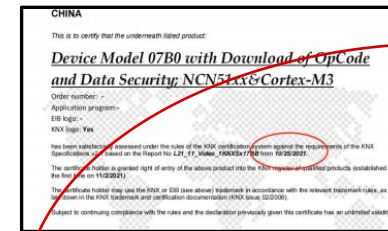
KNX TP application protocol stack, meets the needs of products with more complex functions, higher integration and more system nodes



KNX-0912

(TP Coupler)

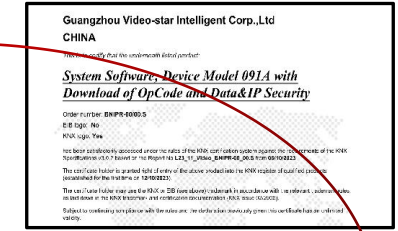
KNX TP coupler protocol stack, meeting TP networking requirements and realizing multi-area and multi-line bus systems



KNX-07B0-Secure

(TP secure 3)

KNX TP security protocol stack can be used on multiple hardware platforms to securely encrypt TP communication data to prevent unauthorized access and operation



KNX-091A-Secure

(IP secure)

KNX IP security protocol stack securely encrypts IP communication data to prevent network attacks; meets IP networking requirements and realizes a faster and more convenient multi-area and multi-line bus system

Cyber security & KNX Secure

Pioneer of KNX in China, IP & data security in the industry

- In September, 2021, GVS passed the Stack certification (KNX-07B0-Secure)
- In July, 2022, GVS release its first KNX secure products.
- In October, 2023, certification of KNX/IP Secure protocol stack
- In future, all GVS KNX products will support KNX secure.

GVS has launched **47** products supporting KNX security



NO.1 in China & No. 6 Worldwide

KNX Association Declaration



This is to certify that

GVS SMART CO., LTD. (GVS)
CHINA

- has as a senior Chinese KNX member developed the highest amount of KNX devices supporting KNX Secure as a feature, compared to the other KNX members in China.
- globally ranks number 6 in terms of developed amount of KNX devices supporting KNX Secure as a feature, compared to all other KNX members worldwide.

The above is confirmed on the basis of the data contained in the records of KNX Association on the date of issue of the certificate.

More up to date information can be obtained directly from the KNX Association.

Joost Demarest, CTO
KNX Association

Date: 16 April 2025



Smart home and building solutions.
Global. Secure. Connected.

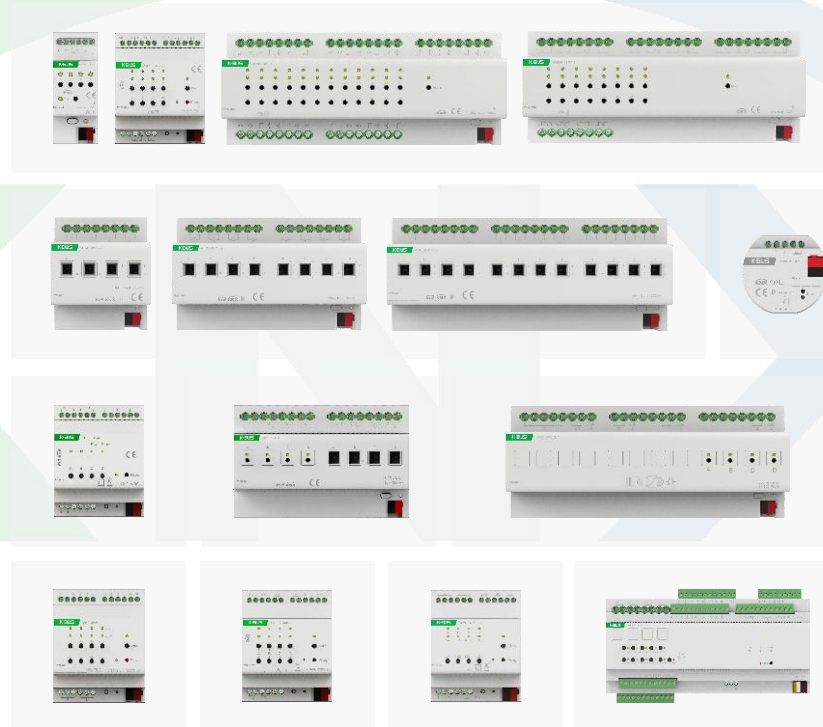


A full line of KNX devices with 18 years' experience

KNX Gateways



KNX Actuators



KNX Sensors



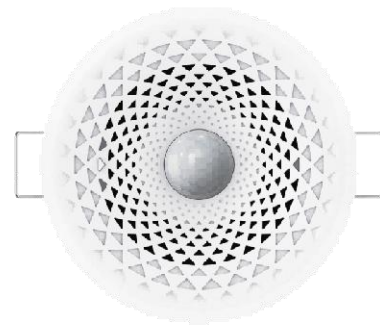
KNX System Devices



Featured Product - The KNX Sensors



KNX Weather Station Series



KNX Multi-function
Sensor 9-in-1



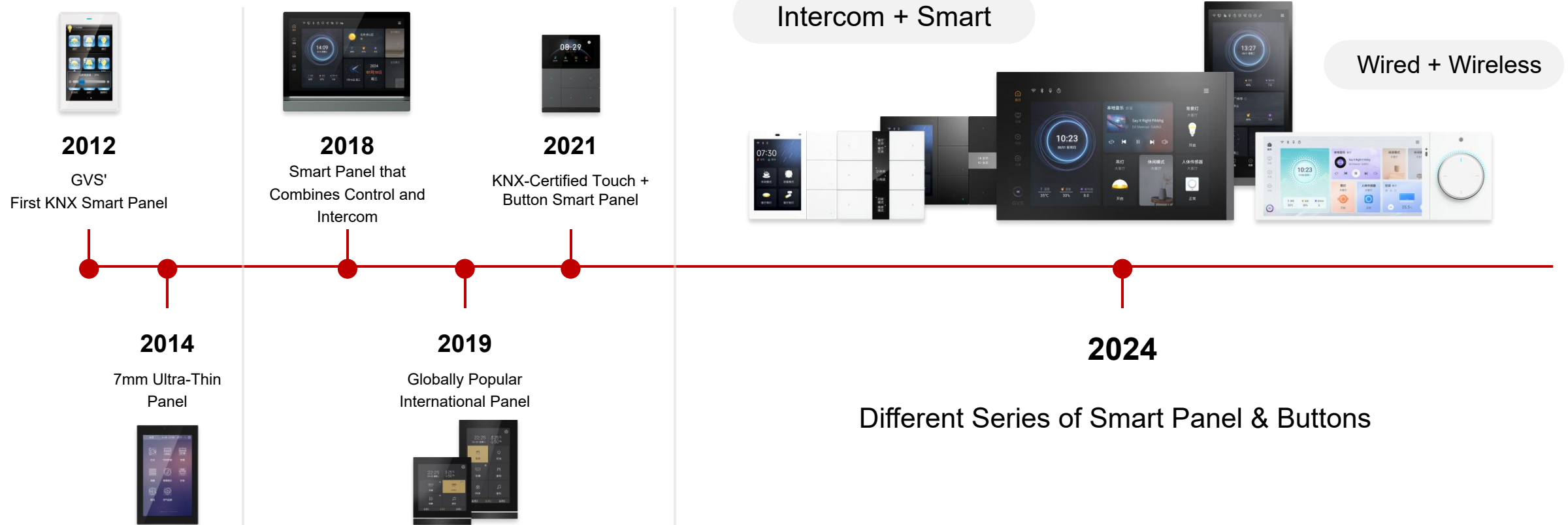
KNX Dual Presence Sensor
PIR&Ultrasonic



KNX Presence Sensor, Microwave



13 Years of Innovation in Smart Panel



Featured New Product - The KNX Panels



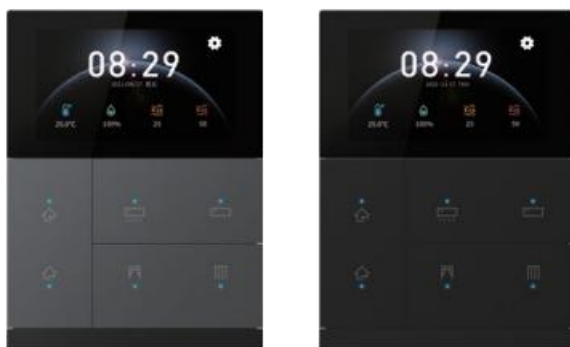
The S Series



Featured New Product - The KNX Panels



KNX Waltz Series



Touch + Button

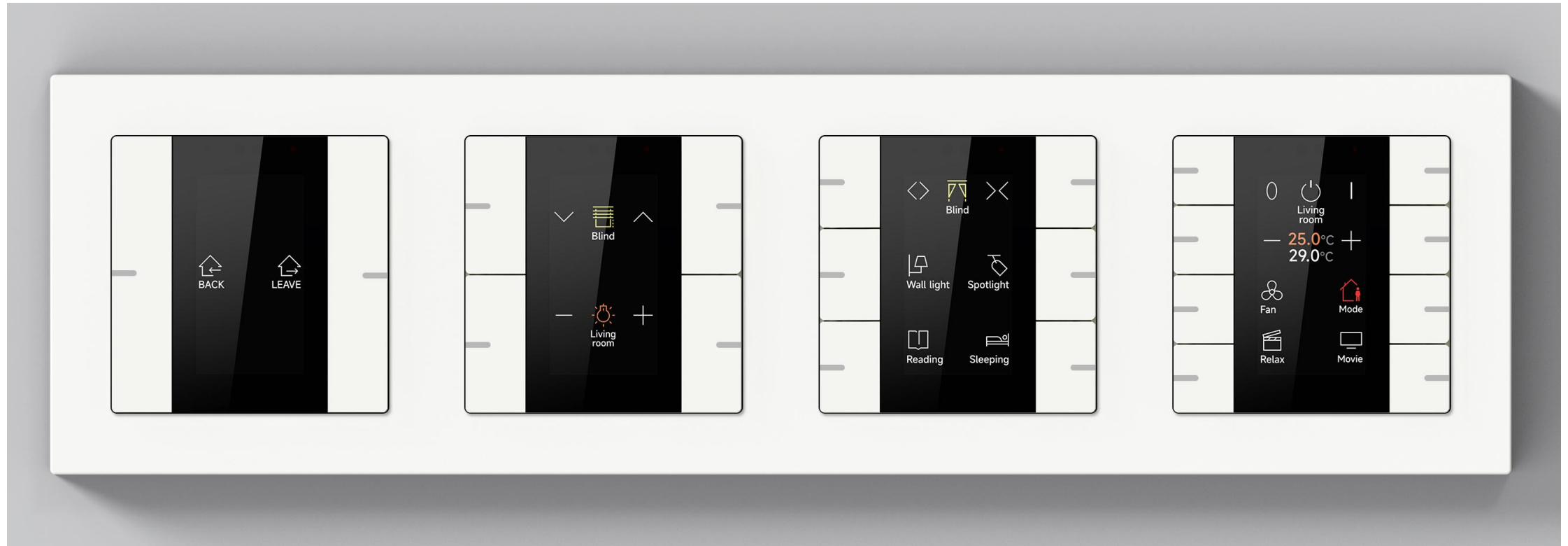


4/6/8 Metal Buttons

Featured New Product - The KNX Panels



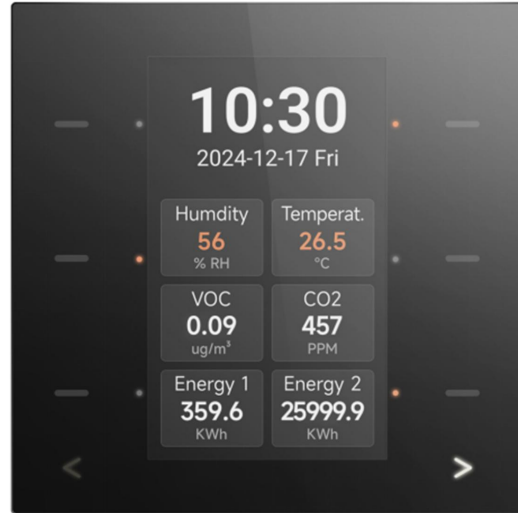
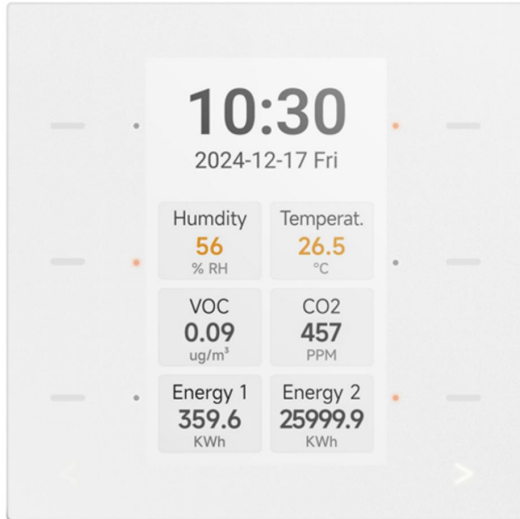
KNX Neo 55mm with display



Featured New Product - The KNX Panels



GVS KNX Glass Sensor GS3



- 92*92mm, bigger size better interaction
- AG Glass touch panel with anti-fingerprint technology
- Built-in temperature, humidity sensor, 2 external input
- 5 Pages with 6 icons/page as central control panel
- Full KNX functions with special features of panel lock, screen saver, slap function etc.
- RGB ambient light (at the bottom)

PART 03

Partnership Opportunity



Tridium - A platform connecting minds and machines

A Global leader in Open Platform Building Automation

- Founded in 1996
- 1 Million+ instances of Niagara operational
- 25,000+ certified professionals
- 1000+ developer partners
- Customers in 77 + countries
- 60+ OEM Partners (brands) with Niagara products



Opportunity in Fast Growing KNX Market



35TH
ANNIVERSARY

#KNXis35

500+

Members

8000

Products

500

Training Centres

190

Countries

120000

KNX Partners

Global KNX Product Market

CAGR
2022-2030
11.1%



12,867 USD Million

Market size was estimated in 2021

34,715 USD Million

Market size was estimated in 2030

Market Concentration



Key Players

SIEMENS

Schneider
Electric

ABB

JUNG



KNX is IoT

Introducing the new KNX IoT: the future of IoT in Home and building automation.



KNX is Secure

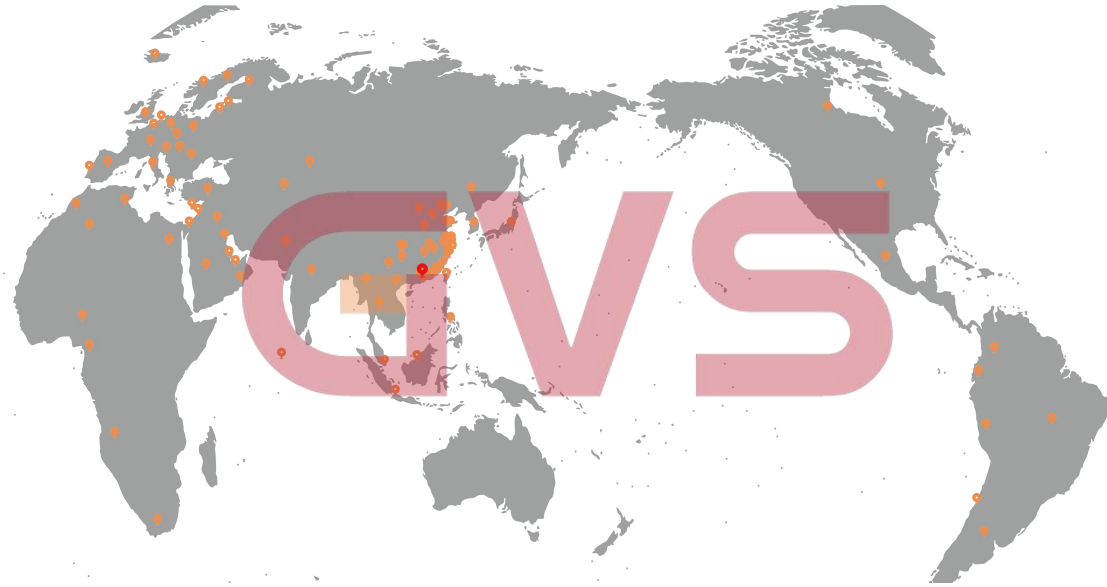
KNX Secure is there to use. Find out all ways to make your KNX Installation secure.



KNX is Sustainable

Building a more sustainable future for smart living

Strengths of GVS - Best Affordable Senior KNX Brand from China



- ✓ The first listed KNX company in Beijing Stock
- ✓ A Shareholder & Technical Board Member of KNX Association
- ✓ 140+ Engineers, Keep Innovating
- ✓ Cover 70+ Country & Region
- ✓ Sustained revenue and profit growth for consecutive years

A Unified building Intelligence realized



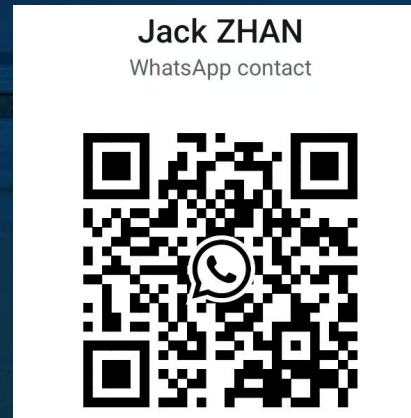
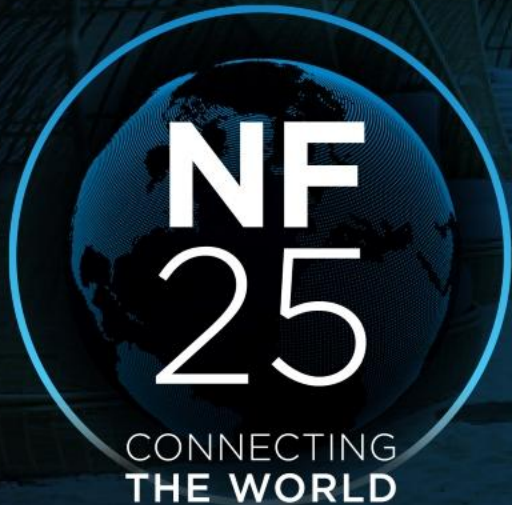
Future-proof framework for BA/BMS

Senior KNX manufacturer & solution provider

Open & evolving bus system worldwide

To make life smart, and smart simple!

THANK YOU



Website: www.gvssmart.com

Email: jack_zhan@gvssmart.com