Gainwise

4G/5G Embedded Solution

Smart Home
4G VoLTE Intercom
Fixed Wireless Terminal
Access Control
4G Industrial Router

Gainwise

Single Station Smoke Detector with 4G Communicator

The 4G Smoke Detector provides a reliable and efficient fire alarm solution without the need for additional wiring or fixed telephone lines. When smoke is detected, the device activates a local siren and sends an SMS alert via its built-in 4G communicator to preset contact persons.

With its low-power design, the 4G module operates on a lithium battery that lasts for over one year. Each detector is built for a lifespan of up to 10 years, offering long-term, cost-effective protection.

SS1801

Example

Feature

★ Supports up to 3 destination phone numbers

★ Sends SMS and phone call alerts when smoke is detected (4G version supports SMS only)

★ Low battery SMS notifications

★ SMS-based configuration for easy setup

★ Scheduled SMS reports with customizable intervals

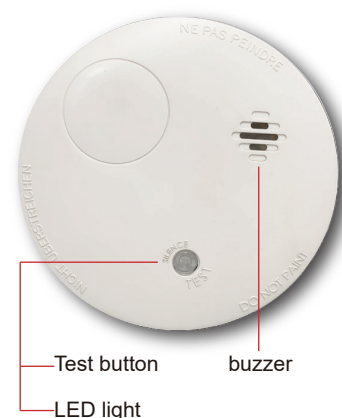★ External RF module supports connection with additional RF smoke detectors

4G Smoke Detectors

Test button   buzzer

LED light

Application

▲ Standalone wireless fire alarm system – quick to deploy and easy to install

▲ Trusted by insurance companies for fast and effective fire detection

▲ Used by real estate and property management firms as a temporary alarm system during construction or renovation

▲ Ideal for architects and contractors seeking a flexible, wireless fire safety solution

Smoke detection hole

Battery location

Model

▲ SS1801-3G: 2G/ 3G Fallback

▲ SS1801-4G: LTE Cat 1 and 2G / 3G Fallback

4G Smoke Detectors Technical data

3G Smoke Detector Module	SS1801-3G:	Five Bands UMTS (WCDMA/FDD) Bands: 800, 850, 900, 1900 and 2100 MHz Quad-Band GSM Bands: 850, 900, 1800 and 1900 MHz
4G Smoke Detector Module	SS1801-4G-E: Penta-Band LTE: Bands 1, 3, 8, 20, 28*(700*, 800, 900, 1800, 2100 MHz), Dual-Band GSM 900 and 1800 MHz SS1801-4G-US: Quad-Band LTE: Bands 2, 4, 5, 12 (700, 850,1700/2100 (AWS) and 1900 MHz), Tri-Band UMTS: Bands 5,4, 2 (WCDMA/FDD 850, 1700/2100 (AWS) and 1900 MHz) SS1801-4G-AUS: Quad-Band LTE: Bands 3, 5, 8, 28 (1800, 850,900, 700 MHz), Tri-Band UMTS: Bands 1, 5, 8(WCDMA/FDD 2100, 850, 900 MHz)	
Accessories	Battery : Lithium CR 123A	
Smoke Detector Approval	EN14604 UL217	
Accessories	Energizer L91 Lithium 1.5V AA * 2 (10 years)	
Battery Power	Rating Voltage:DC 3V for lithium battery	
Sensitivity & Alarm Pattern UL217	1.31%ft~2.28%/ft ; Temporal Three Pattern	
Sensitivity & Alarm Pattern EN14604	0.091 dB/m~0.149 dB/m, Temporal Three Pattern	
Heat Sensitivity & Alarm Pattern	57°C~65°C ; Temporal three Pattern	
Relative Humidity	10% to 85% RH	
Temperature Range	0°C to 50°C (32°F to 120°F)	
Dimension	120mm (D) x 53mm (H)	

Gainwise Technology Co., Ltd.

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4G Alarm Hub (Audio / Silent Version)
RF Smoke Detector

Our 4G Alarm system includes a central hub and multiple wireless smoke detectors. Designed for rapid response and reliable communication, the system delivers real-time alerts via the 4G network, providing maximum protection for residential, commercial, and industrial environments.
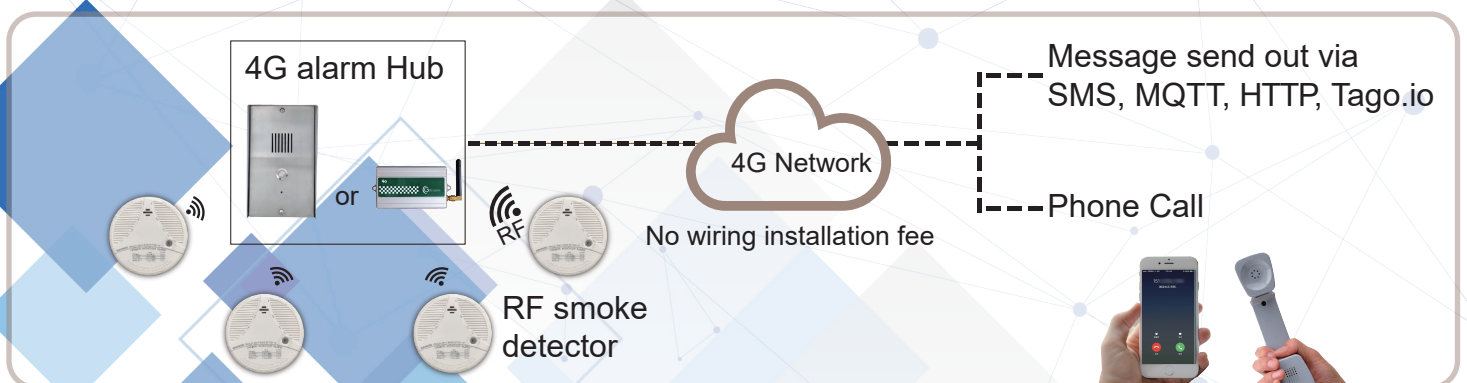We offer two models of alarm hub: one with integrated call functionality, and one without

Features

★ **No Wiring Required :** *Fully wireless installation – no wiring fees.*

★ **4G + RF Dual Connectivity :** *Receives signals from RF smoke detectors and transmits alerts via 4G.*

★ **Multi-Channel Alert Delivery :**
  → *Phone Calls (Supports VoLTE)*
  → *SMS*
  → *MQTT / HTTP / Tago.io*

★ **Call Functionality :** *Supports up to 3 phone numbers for outgoing calls*

★ **System Features :**
  → *Interlinkage between main units via SMS*
  → *Control and trigger all connected devices simultaneously*
  → *Supports up to 24 detectors*

★ **Advanced Configuration :**
  → *FTP support for reading/writing settings and firmware updates*
  → *Compatible with MQTT, HTTP, and Tago.io platforms*
  → *Includes 2 relay outputs for external device integration*

★ **Battery & Maintenance :**
  → *Low battery alerts for both main and sub-units*
  → *Long-life design with minimal maintenance requirements*

4G Alarm System

Application

4G alarm Hub

or

RF

RF smoke detector

4G Network

No wiring installation fee

Message send out via SMS, MQTT, HTTP, Tago.io

Phone Call

4G Alarm System

4G Alarm Hub With Call Function

Specification

Call out numbers	3
Audio	two way-voice
Connect slaves device	24
Module	EC21
Dimension	174(H) x 113(W) x 65(D)mm
Operating Voltage	5 Volt DC
Setup by	SMS /App/HTTP/MQTT

4G Alarm Hub

Specification

Call out numbers	3
Connect slaves device	24
Module	EC21
Dimension	90(H) x 60(W) x 27(D) mm
Operating Voltage	12 Volt DC
Setup by	SMS /App/HTTP/MQTT

RF Smoke Detector (Battery)

Specification

Description :	Combination Smoke & CO Alarm, Smoke Alarm, CO Alarm		
Rating Voltage :	DC 3V	Approval :	CO:EN50291、UL2034 Smoke: EN14604, 9th ED UL217
Standby Current :	30uA		
Low-battery Alarm :	2.6~2.7V	Operating Temperature :	-10℃~50℃
Dimensions :	125 X 46 (mm)	Operating Humidity :	10%~90%
Sound Level :	85dB/3M	Alarm Current :	120mA(max)

4G Video Intercom

SS1912 (Vertical)

Feature

- ★ Instant video call to mobile App
- ★ 24/7 Video recording
- ★ Face detection alarm
- ★ 3,000 Phone numbers
- ★ 1,000 Mifare cards (Optional)
- ★ 1,000 PIN Codes
- ★ 4G LTE / 3G / GSM
- ★ 1080P video, H.265
- ★ Two-Way audio
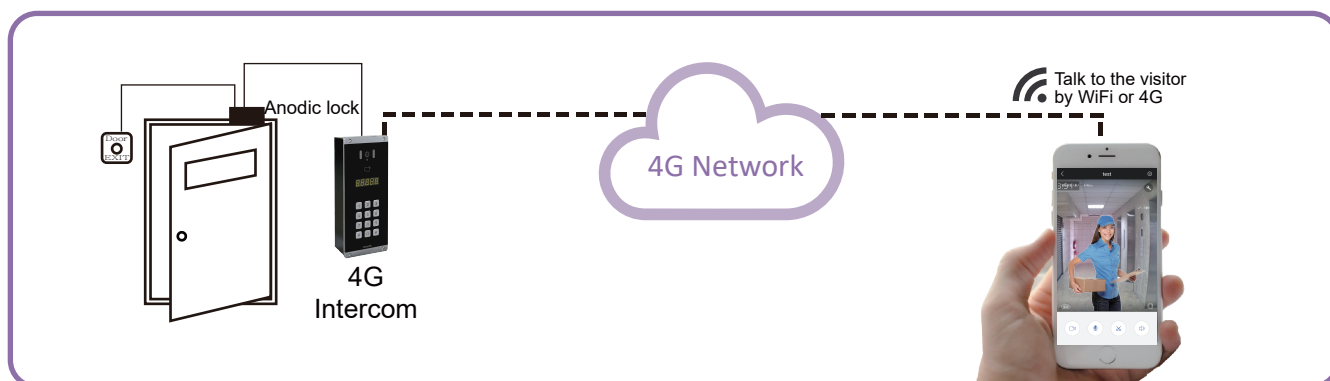- ★ SD Card storage up to 128GB

SS1912

SS2012 (Outdoor)

SS2012

Feature

- ★ Separate call button
- ★ Instant video call to mobile App
- ★ 24/7 Video recording
- ★ Face detection alarm
- ★ 3,000 Phone numbers
- ★ 1,000 Mifare cards (Optional)
- ★ 1,000 PIN Codes
- ★ 4G LTE / 3G / GSM
- ★ 1080P video, H.265
- ★ Two-Way audio
- ★ SD Card storage up to 128GB

http://www.gainwise.com.tw/

4G Video Intercom

Application

Anodic lock

4G Intercom

4G Network

Talk to the visitor by WiFi or 4G

4G Intercom Specification

	SS1912	SS2012
Network	Mobile network or Ethernet	
Resolution Compression	1080P	
Night Vision	BW Image, 6 Infrared LED	
Real color	IR-CUT real-color	
Display	Seven-segment display(5 digits)	
Alarm	Face detection	
storage	Record on TF card(Maximum 128 GB)	
Full Duplex	Full Duplex (2 way same time)	
Relay Outputs	2	
Open lock	Keypad or RFID card or QR code or App	
Material	IP65-Rated Aluminum Alloy Panel	
Product Dimension	276(H) x 116(W) x 50(D) mm	260(H) x 160(W) x 120(D) mm

4G Intercom for Communities
SS2106 Master / Slave

4G Model
Supports VoLTE

**VoLTE** Voice Over LTE

SS2106M-12K (500 Households)

Feature

★ Answer the door intercom and talk with visitor from anywhere anytime

★ Calls up to 5 numbers whatever landline or mobile

★ Open the gate from anywhere in the world

★ Available for up to 500 households

★ Access control with free incoming call, up to 1500 phone numbers

★ Access control with PIN code, up to 1000

★ No wiring installation fee for indoor station

★ Master station and slave station with 1 SIM

★ Simple to setup by PC / SMS /App

★ Check log via SMS or Email

SS2106M-12K

SS2106M-24D (24 Households)
SS2106M-12D (12 Households)

SS2106M-12D   SS2106M-24D

Feature

★ Answer the door intercom and talk with visitor anywhere anytime

★ Calls up to 5 numbers whatever landline or mobile

★ Open the gate from anywhere in the world

★ For up to 12 / 24 households

★ Access control with free incoming call, up to 1500 phone numbers

★ No wiring installation fee for indoor station

★ Master station and slave station with 1 SIM

4G Intercom for Communities
SS2106 Master / Slave

Application

4G Network

No wiring installation fee

Master Station (4G SIM card inside) — RS485 — Slave Station
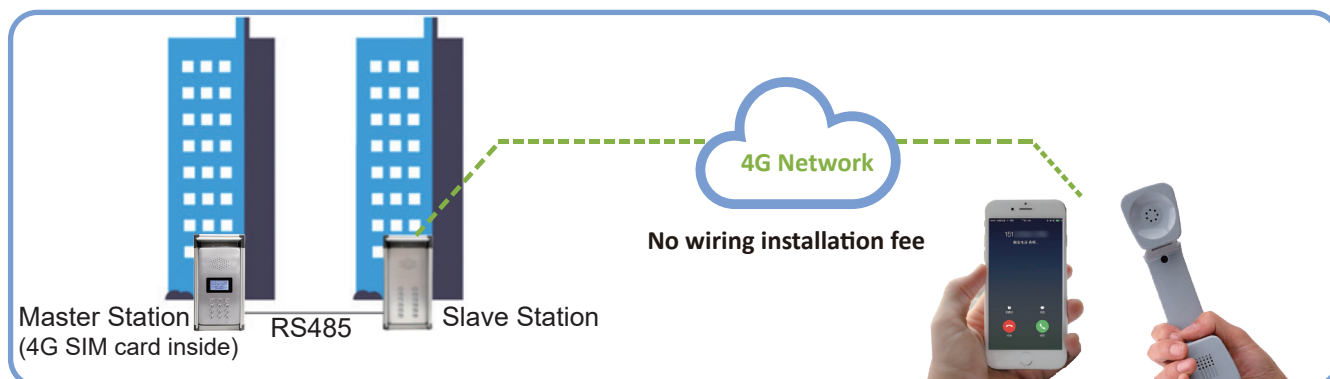
The SS2106 series is designed to enable community intercom units to share one SIM card, which can significantly reduce Number of SIM cards. It is an ideal solution for large-scale installations, such as multi-building communities or multi-exit parking lots, where community intercom units can be set up at different entrances or exits, all using the same SIM card.

Specification

Model		SS2106M-12K	SS2106M-24D	SS2106M-12D
	Master Device	SS2106M-12K	SS2106M-24D	SS2106M-12D
	Slave Device	SS2106S-12K	SS2106S-24D	SS2106S-12D
Call out numbers		500x5	24x5	12x5
Open the door with PIN code		1000	NO	NO
Open the door with caller ID		1500	1500	1500
Call log		YES	YES	YES
Relay control		2	2	2
LCM		YES	NO	NO
Dimension		324(H)*177(W)*65(D) mm		
Module		EC21-A : B2 B4 B12 EC21-AU : B1 B2 B3 B4 B5 B7 B8 B28 EC21-E : B1 B3 B5 B7 B8 B20		
SIM Card type		Micro-SIM		
Operating Voltage		12 Volt DC		
Setup by		SMS /App / PC		

4G Audio Intercom

4G Model
Supports VoLTE

VoLTE Voice Over LTE

SS1808-01 | SS1808-08 | SS1808-12
Individual Home | 8 Households | 200 Households

Aluminum Alloy Panel

Feature

★ Answer the door intercom and talk with visitor from anywhere anytime

★ Calls up to 3 numbers whatever landline or mobile

★ Open the gate from anywhere in the world

★ 1150 caller ID access control by free call

★ No wiring installation fee

★ Anti-Vandal and aluminum design

★ Flush mount and surface mount design

★ Simple to setup by PC / SMS /App

★ Check log via SMS/ Email

◆ For use up to 200 households

◆ 384 user PIN codes for access control

◆ User selectable 1-14 digit PIN codes

◆ Blue backlight keypad is easy to operate at night

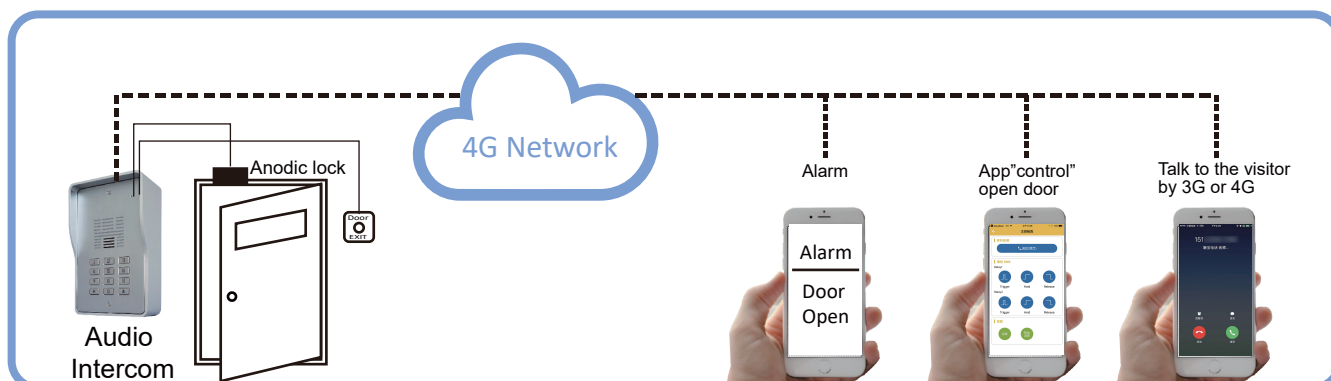**(◆ :Only for *200* Households)**

SS1808-01

SS1808-08

SS1808-12

4G Audio Intercom

Application

▲ When the door is cracked open by a burglar, the 4G intercom will notify the user by SMS alert.

▲ The 4G intercom is also ideal for vacation homes! when your tenants arrive, they simply press the keypad password to gain entry to your property.

4G Audio Intercom Comparison table

Model	SS1808-01	SS1808-08	SS1808-12
Households	1	8	200
Call out numbers	3	24(8X3)	600(200x3)
Open the door via PIN code	NO	NO	YES(384)
Open the door via caller ID	1150	1150	1150
Relay control	2	2	2
Name tag	YES	YES	NO
Call List Report	YES	YES	YES
SMS Alerts if cracked	YES	YES	YES
Face plate	180(H) x 109(W)mm		
Dimension	189(H) x 118(W) x 65(D)mm		
Module	SS1808: 4G｜EC21		
SIM card type	Micro-SIM		
Operating Voltage	12 Volt DC		
Setup by	PC / SMS /App		
Design	Anti-Vandal and aluminum design		

4G Audio Intercom

Gainwise

VoLTE Voice Over LTE

SS2204-4G01
SS1404-4G01
Individual Home

Stainless Steel Panel

SS2204-4G01

SS1404-4G01

Feature

★ Answer the door intercom and talk with visitor anywhere anytime

★ Calls up to 3 numbers whatever landline or mobile

★ Open the gate from anywhere in the world

★ 1150 caller ID access control by free call

★ No wiring installation fee

★ Simple to setup by SMS or App

★ Anti-Vandal and stainless steel design

★ Flush mount and surface mount design

SS2204-4G01AO-K12H

SS2204-4G01AO-K12H
4G Intercom With Keypad

Feature

★ Ideal for driveway gates

★ Gooseneck Pole Mount

★ Answer the door intercom and talk with visitor anywhere anytime

★ 1150 caller ID access control by free call

★ 384 user PIN codes access control from keypad

★ Optional for calling 1 guardroom or 200 residents

4G Audio Intercom

Application
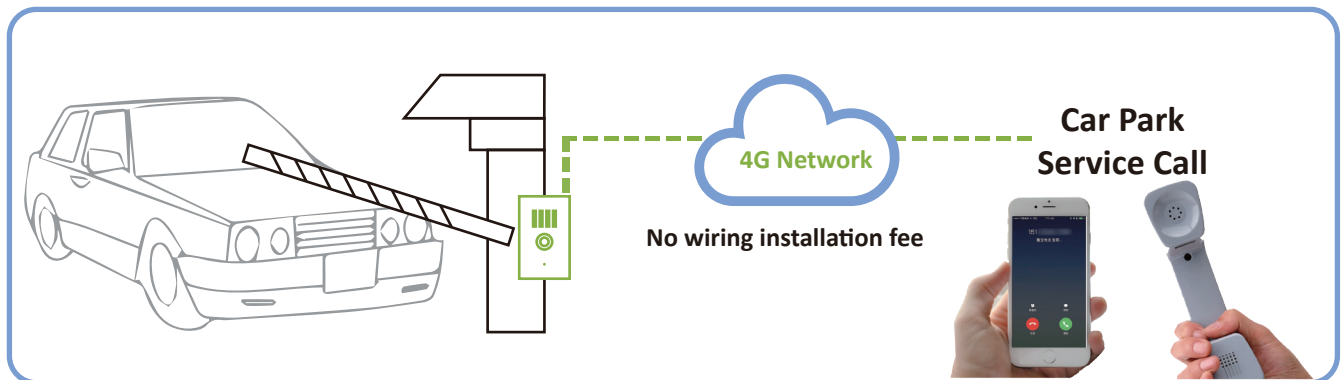
▲ Taxi Free Phone designed for all weather and anti-vandal use. Own your location! Uses a SIM card and calls the taxi office phone number when the call button is pressed.

▲ Press the 4G intercom call button and it will automatically connect you to the car park service center for help.

4G Audio Intercom Comparison table

Model	SS2204-4G01A	SS1404-4G01	SS2204-4G01AO-K12H
Call out numbers	3	3	3
Open the door via PIN code	NO	NO	YES(384)
Open the door via caller ID	1150	1150	1150
Call List Report	YES	YES	YES
Relay control	2	1	2
SMS Alerts if cracked	YES	YES	YES
Dimension	174(H)x113(W)x65(D) mm	164(H)x81(W)x75(D) mm	260(H)x160(W)x120(D) mm
Module	EC21-A : B2 B4 B12 EC21-AU : B1 B2 B3 B4 B5 B7 B8 B28 EC21-E : B1 B3 B5 B7 B8 B20		
SIM Card type	Micro-SIM		
Operating Voltage	12 Volt DC		
Setup by	SMS /App		

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4G Solar Intercom

4G Solar Emergency Call

SS2102-4G01ECV-M

Feature

★ Support VoLTE calls

★ Three numbers for emergency calls

★ Two output Relays available

★ Support FTP settings and firmware upgrade.

★ Powered by solar panel or power adapter

★ Low battery notification

Specification

| Model	SS2102-4G01ECV-M
Call out numbers	3
Output	2 relay
Dimension	174(H) x 113(W) x 65(D)mm
Solar Panel Power	5.48W 12V
Module	EC21-A : B2 B4 B12 EC21-AU : B1 B2 B3 B4 B5 B7 B8 B28 EC21-E : B1 B3 B5 B7 B8 B20
SIM card type	Micro-SIM
Operating Voltage	5 Volt DC
Setup by	SMS /App

Accessories

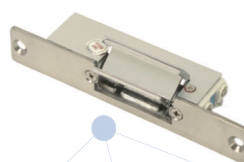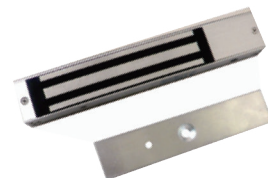|	Surface Mount Box		Lighted Directory	
Model	DC-020A	DC-029A	SS1900-01	SS1800-01
Suitable for	SS91B / SS1804 / SS2204	SS1603 / SS1808(series)	SS1912	SS1603-12 / SS1808-12
Dimension (H)x(W)X(D)	174x 113 x 65 (mm)	189 x 118 x 65 (mm)	276 x 116 x 50 (mm)	189 x 118 x 65 (mm)

Door Latches & Egress Button

Electric silent Lock with exit button
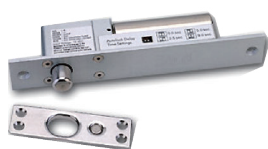
Electric Bolt

Electric Strike Lock

Magnetic lock

Egress Button

Egress Button

Egress Button

Magnetic reed switch

Gainwise Technology Co., Ltd.

Fixed Wireless Terminal (FWT)

Gainwise

4G FWT

4G Model
Supports VoLTE

VoLTE Voice Over LTE

With Fixed Wireless Terminals enterprises can benefit from substantial cost savings using Least Cost Routing (LCR) with the terminal connected to PBX.
This enables turning fixed-to-mobile into mobile-to-mobile calls.

NEOS3000

★ Connect the NEOS3000A-4G to an analog trunk of PABX or a standard phone

★ Make direct mobile to mobile phone call to replace the expensive PSTN to mobile phone call

★ Mobile Trunk and Back-up telephone line

★ Automatically take advantage of the lowest rate to reach the LCR

★ Wireless payphone application

◆ 4G SIM Elevator voice gateway with failover protection

◆ 2 SIM -Dual carrier solution

◆ Auto network failure detection with alternate carrier in second SIM slot

◆ Battery backup for up to 8 Hours

(◆ :Only for *5G NEOS6*)

5G NEOS6

NEOS3000

NEOS4000

NEOS4000

★ 4 channels model

★ Call restricted

★ Save on call cost

★ Polarity Reversal

★ Time control

★ Rack mount / wall mount

Fixed Wireless Terminal (FWT)

Application

Be a mobile trunk

PLMN

NEOS3000

Module	NEOS3002-4G │ EC21
Phone port:	RJ-11 interface for POTS
Line port:	RJ-11 interface for PSTN
Power:	AC/DC adapter
LCM signal:	USB connector for liquid crystal display module (optional)
Dimensions:	160(L) x 120(W) x 27(H)mm
Weight	280g
Packaging	1 unit/box and 20 units/carton
Connector	SMA antenna connector
	USB B type interface for data transmission

NEOS4000

Module	NEOS4000-4G │ EC21
Phone interfaces	Impedance:600Ω or AU 220Ω+820Ω//120nF or others Line current:24mA
Dimensions and Weight	240(L) x 164(W) x 43(H)mm 966g
Connectors	PHONE PORT:P1,P2,P3,P4 RJ11 interface for POTS interface DC12V:12VDC power jack ANT1,ANT2,ANT3,ANT4:SMA plug female(50ohm) SIM1,SIM2,SIM3,SIM4:SIM card connector
LED indicators	Power │ Status │ Mobile │ Hook(CPE)
Antenna(included)	SMA magnet antenna(3meter)
Environment	Operating:-10°C~50°C Storage:-40°C~60°C Humidity:5%~95%
AC to DC switching power supply(included)	AC input:100~240VAC,50/60Hz DCoutput:DC12V/3A Available plug:US,EU,AU,UK

Gainwise

4G Access Controller

SS1806-4G (Gate Opener)

Feature

★ Open the door via Call/SMS remotely

★ 1150 caller ID access control by free call

★ Log records sent via SMS/Email

★ SMS alert when input is triggered

★ Supports 2 output relays and 3 input triggers

SS1806-4G

SS1401-4G

SS1401-4G (Keypad Opener)

Feature

★ Open the door via PIN code or Call/SMS remotely

★ 384 user PIN codes

★ 1150 caller ID access control by free call

★ Log records sent via SMS/Email

★ SMS alert when input is triggered

★ Support 2 output relays and 3 input triggers

★ Wrong PIN code entry limit and will emit alert sound

★ Anti-Vandal and stainless steel keypad with
   blue backlight design

4G Access Controller

Application
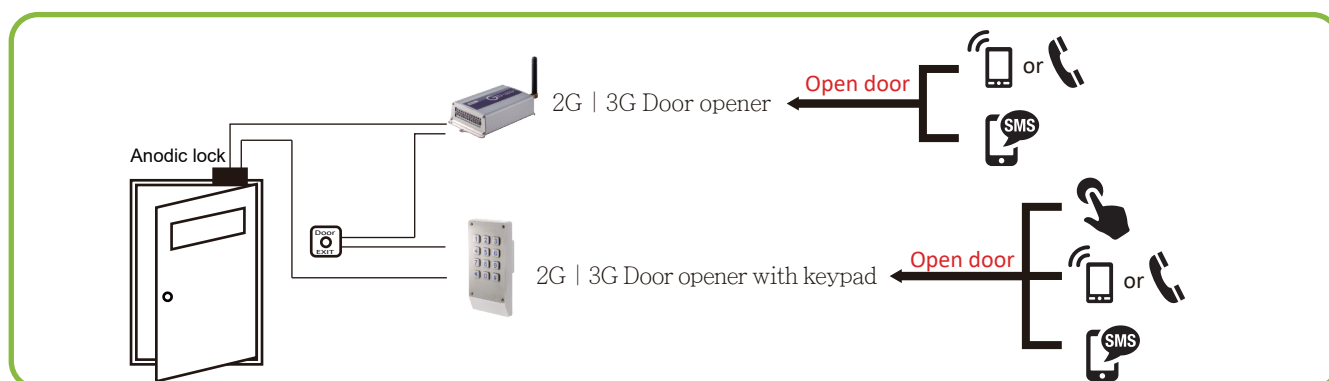
4G Access controller Comparison table

Model	SS1806-4G	SS1401-4G
Open the door via PIN code	NO	YES(384)
Open the door via caller ID	1150	1150
Call List Report	YES	YES
Inputs	3	0
Outputs	2	2
SMS Alerts if cracked	YES	YES
Dimension	90(H) x 60(W) x 27(D) mm	164(H) x 81(W) x 75(D) mm
SIM Card type	Nano-SIM	Micro-SIM
Module	EC21-A : B2 B4 B12 EC21-AU : B1 B2 B3 B4 B5 B7 B8 B28 EC21-E : B1 B3 B5 B7 B8 B20	
Operating Voltage	12 Volt DC	
Setup by	SMS /App	

4G Industrial Router

Gainwise

MMG-4203

MMG-4203

Feature

★ Industrial automation control system

★ Remote device management

★ Surveillance and security systems

★ Mobile working and temporary network connections

4G Industrial Router Specification

Model	MMG-4203
Serial Communication & High Throughput Data Switching	● RS232/422/485 full functions for serial over LTE/NBIoT/WiFi/ Ethernet data switching ● 2 port Ethernet supports routing and bridging mode ● Modbus RTU to Modbus TCP Conversion ● Modbus Log to collect sensor data ● Modbus Write Single Coil, Register to configure sensor parameters ● VConnect up to 25 sensors in one RS485 chain ● VDLMS/COSEM protocol to connect power meters
Enhanced Cyber Security & Redundancy	● Firewall for inbound/outbound traffic ● OpenVPN (server/client) ● L2TP with PPP, PAP, CHAP(LCP, IPCP), GRE tunnel ● HTTPs/SSH secure login ● MQTTS with TLS encryption and X.509 authenticationTACACS+ multi-user authentication for privileged user management

Contact

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