



# Synway Protector™ Cellular Firewall

The Synway's cellular firewall is a portable solution designed to selectively block services to designated mobile devices in its operational zone. As a part of the Synway Protector™ suite of products, the Synway Cellular Firewall can be programmed to deny access to the cellular network for some cellular phones while granting access to others. The Synway cellular firewall also allows for uninterrupted cellular service to authorized devices based on their cellular identities. This makes the system ideal for any scenario where cellular communication needs to be controlled or supervised, such as in secure facilities and prisons. Synway's cellular firewall can send and receive target information to and from external sources to keep command and control centers fully apprised of the ongoing operation. It uses its advanced analysis to cross-reference data to provide high-level intelligence to operators and security agencies.

With add-on advanced IMSI capturing and positioning technologies, the Synway cellular firewall also can capture cellular IMEI or IMSI unique identification and locate cellular phones. When working in "selective blocking mode", the authorized mobile phones can access the public mobile networks normally while the unauthorized ones can't.

Synway designs and builds all its systems in-house, and so configurations can be customized to specific customer needs upon request. Synway Protector™ cellular firewall comes in various form factors and flexible configurations: 1) highly compact unit that fits into a jacket pocket; 2) ruggedized suitcase or portable backpack unit; 3) vehicle-mounted for flexible deployments; 4) fixed, rack-mounted unit for long-term operations.

This enhanced utility enables relevant **law enforcement agencies, search and rescue, correctional facility, prison, police and counter terrorism, border security, emergency service and telecommunication** to augment their intelligence on potential targets and, if required, take appropriate action.

## Core Features

### Selective Cellular Access Control

Acts as a portable solution to selectively block cellular network services for designated mobile devices, while granting access to authorized ones.

### Uninterrupted Service for Authorized Devices

Maintains continuous cellular service for pre-approved devices, avoiding disruption to legitimate communication needs.

### Target Information Interaction & Advanced Intelligence Analysis

Sends and receives target-related data to/from external sources; Uses advanced data cross-referencing and analysis to generate high-level intelligence for operators and security agencies.

### Portability & Integration with Synway Ecosystem

Designed as a portable solution for flexible on-site deployment; Belongs to the Synway Protector™ product suite, ensuring compatibility with other Synway intelligence-gathering systems.

## Core Benefits

### Precise & Non-Disruptive

Avoids "one-size-fits-all" network blocking: Only restricts unauthorized devices, preventing unnecessary disruption to critical/authorized communications.

### Ideal for High-Security Scenarios

Perfect for environments requiring strict cellular control (e.g., prisons, secure government facilities), balances security and operational efficiency.

### Real-Time Operational Synergy

Enables command and control centers to stay fully apprised of on-site conditions via data interaction, supporting timely decision-making and coordinated responses to incidents.

### Flexible Deployment & Low Integration Cost

Portability allows deployment across diverse locations (e.g., temporary security checkpoints, mobile operation sites) without fixed infrastructure constraints.

### Actionable Intelligence Support

Advanced data analysis and cross-referencing turn raw target data into high-value intelligence, helping security agencies identify patterns, track risks, and optimize operational strategies.

## Technical Specification

Main Functions	Cellular firewall, Add-on IMSI catcher and cellular locator	
Applications	law enforcement agencies, search and rescue, correctional facility, prison, police and counter terrorism, border security patrol, emergency service and telecommunication	
Base station	Simulates GSM/ UMTS/ LTE/5G NR base stations simultaneously. The supported network protocols can be customized.	
Bands	Support 2G, 3G, 4G, 5G, the frequency band include GSM/UMTS/LTE	
	5G	N1:uplink: 1920-1980MHz;downlink:2110-2170MHz N5:uplink: 824-849MHz;downlink:869-894MHz N8:uplink: 880-915MHz;downlink:925-960MHz N28:uplink:703-748MHz;downlink:758-803MHz N41:2496-2690MHz N77/N8:3300-3600MHz N79: 4400-5000MHz
	4G	B1:uplink: 1920-1980MHz;downlink:2110-2170MHz B3:uplink: 1710-1785MHz;downlink:1805-1880MHz B5:uplink:824-849MHz;downlink:869-894MHz B8:uplink:880-915MHz;downlink:925-960MHz B34:2010-2025MHz B39:1880-1920MHz B40:2300-2390MHz B41(38):2496-2690MHz
	3G	WCDMA:B1:uplink: 1920-1980MHz;downlink:2110-2170MHz CDMA:B5:uplink:824-849MHz;downlink:869-894MHz
	2G	GSM900:uplink:890-915MHz;downlink:935-960MHz DCS1800:uplink:1710-1785MHz;downlink:1805-1880MHz
	Notes: The number of supported bands will continue to be updated and can be customized according to clients' need.	
Transmit Power	≤ 47 dBm (50 Watt), stepless adjustment	
Sensitivity	≤ -110 dBm	
Signal Coverage Radius	50-1000m (Typical / Ideal Environment): With distributed deployment, the coverage area can be expanded via indoor distributed antennas	
Antenna Interface	N-Type	

Software Features	Data Export Format: Excel Multi-User Permissions: Not Supported Remote Management: Web Whitelist/Blacklist Capacity: Unlimited Capture Rate: 50 Entries/Sec Storage Capacity: 1 Million Records Control Platform: PC Terminal Custom-made while needed
Electrical Parameters	Input Voltage: AC 110-220V, DC Optional Power Consumption: based on function, usually less than 1,000Watt Battery Capacity: Optional or based on necessity Battery Life: based on necessity
Physical Parameters	Housing Material: ADC12 Die-Cast Part (Die-Cast Aluminum Alloy) Protection Class: IP67 Dimensions (Length × Width × Height, mm): The dimensions are related to the number of supported frequency points and coverage range; Weight: custom-made by needs
Environmental	Operating Temperature Range: -40 – 55 °C Storage Temperature Range: -40 – 55 °C Humidity: 5% – 98% RH Shock Resistance Class: IEC
Accessories List	Signal Shielding Main Unit Main Unit Power Cable Main Unit Ethernet Cable Signal Shielding Front-End Beidou Antennas Ceiling-Mounted Antenna Installation Accessories (including feeder cables and hoop accessories) Different configuration may need accessories different from above. Please consult your agent
Scan and set-up	Automatically provides users with the ideal parameter for the most effective attraction of mobile phone subscribers.
Detection	Alarm can be triggered upon the presence of a specific mobile phone.
IDs	Capture and record cellular identifiers (IMSI, IMEI), which are stored in database and analyzed.
White list	Allows a predefined list of devices to work while denying service to all others.
Blacklist	Allows operation in a targeted mode where all phones are released but a predefined list of targets is held / denied.
Downgrade	Ability to downgrade target mobile phone from LTE or UMTS to GSM.
Warranty	3-Years, lifetime technical support for free

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#### HANGZHOU SYNWAY INFORMATION ENGINEERING CO., LTD.

Founded in 1995 in Hangzhou, SYNWAY is a leading global provider of communication solutions, offering VoIP Gateways, IP PBXs, SBCs, and IMSI Catcher systems. With reliable, innovative, and future-ready products, we deliver agile and cost-effective solutions to telecom operators, service providers, system integrators, enterprises, and government agencies in over 100 countries.