








Model: M1800

# AX1800

## Whole Home Mesh WiFi System



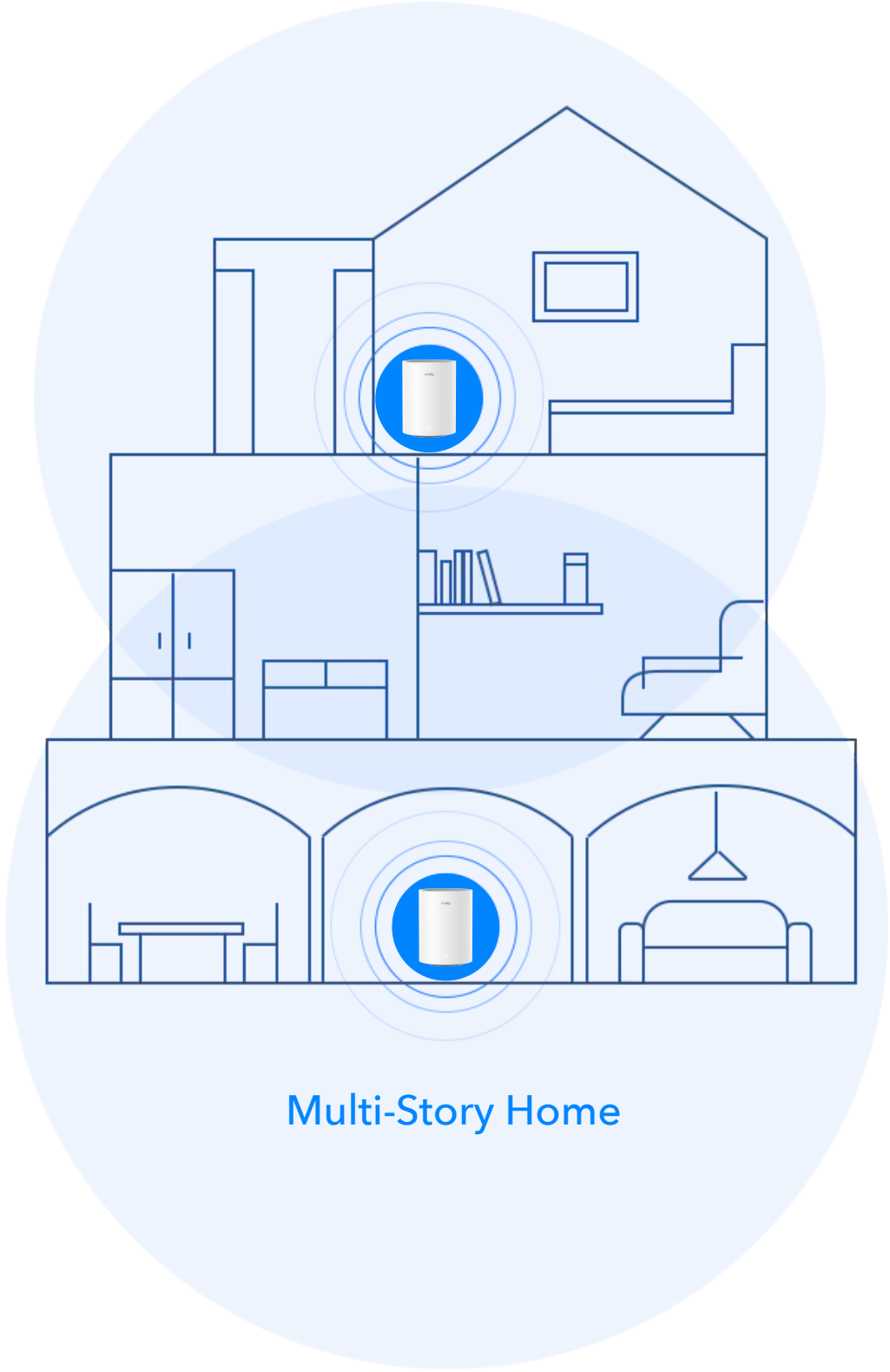
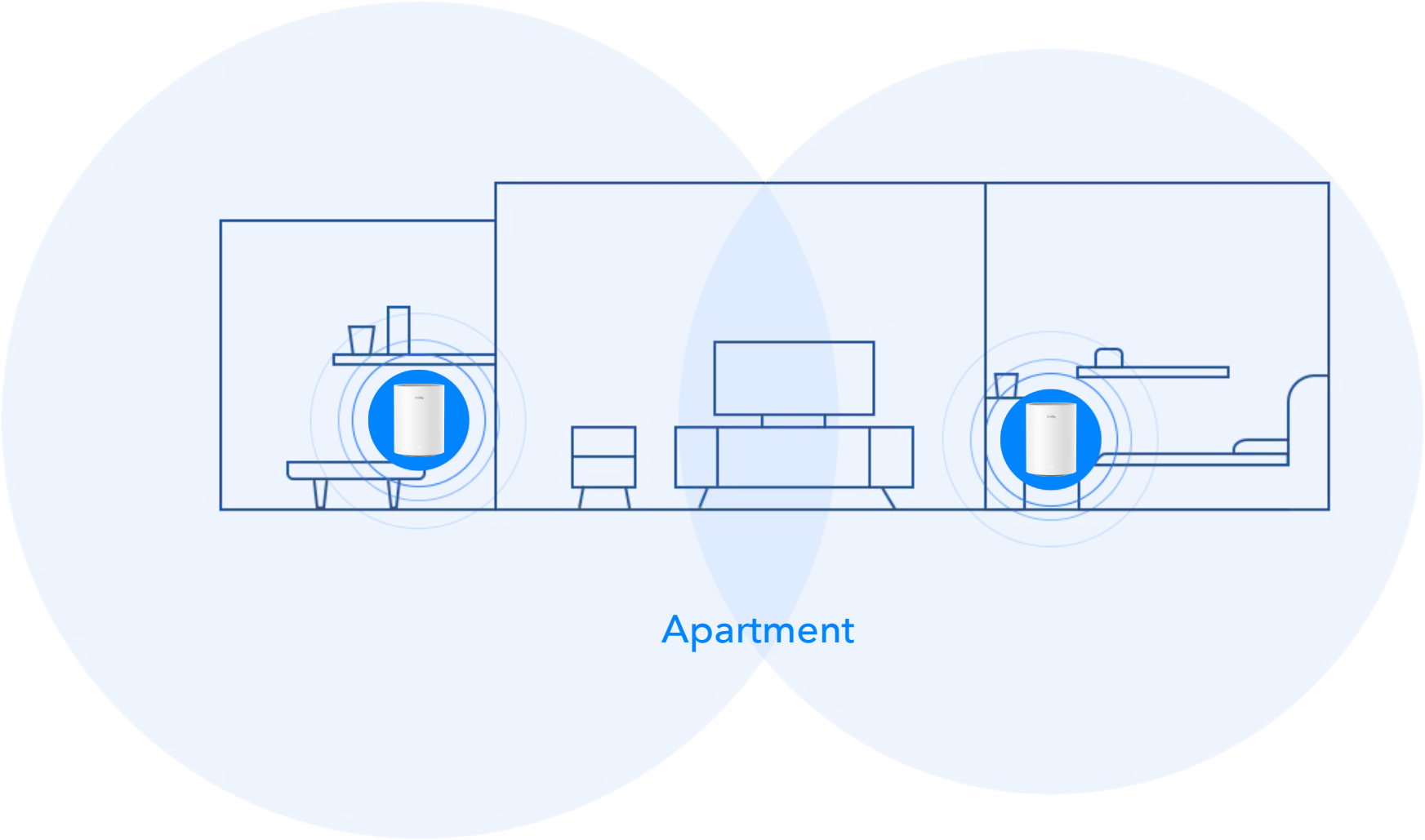
-  Enhanced Whole Home Coverage
-  Seamless Roaming
-  Up to 1.8Gbps Wi-Fi 6 Speed
-  VPN Server and VPN Client Support
-  Latest and cutting-edge WPA3 Security

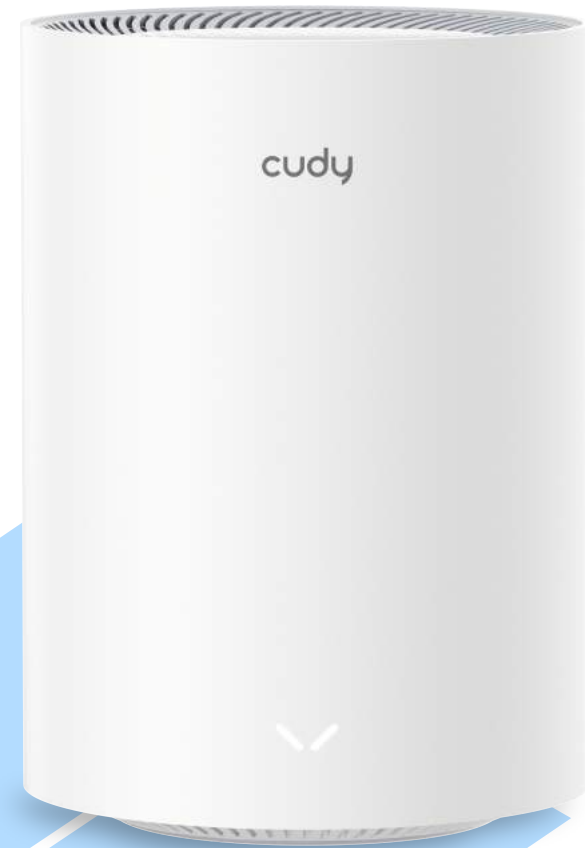
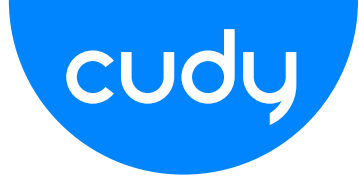
[Datasheet](#)



# Whole Home Mesh, Dead Zone Killer

With Cudy Mesh Wi-Fi 6 System, you'll enjoy advanced whole home WiFi designed to deliver smooth video streaming and fast online gaming to more devices at the same time. Experience the next generation of WiFi 6, perfect for medium to large homes up to 5,500 sq.ft. Want more coverage? Simply add another one.

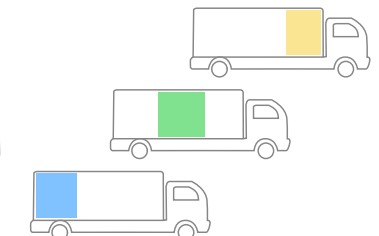
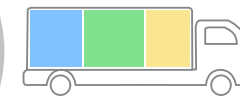




1201 Mbps (5 GHz)

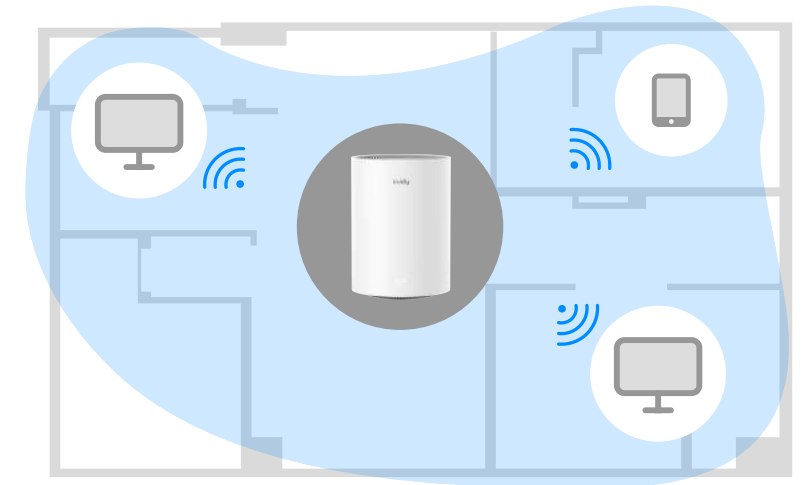
574 Mbps (2.4 GHz)

Up to 1.8Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.



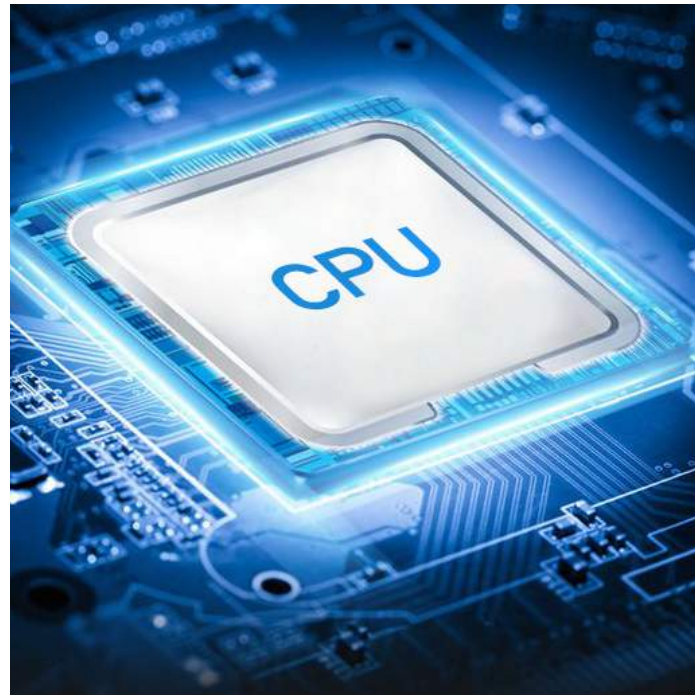
More Devices: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.

## Features



Extensive Coverage: Beamforming, and four antennas combine to deliver focused reception to devices far away.

# Hardware



### Powerful Dual-Core Processor

Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.

128Mbit  
Flash

+

2Gbit  
DDR

### 128Mbit Flash + 2Gbit DDR

128Mbit flash design makes the router stable and reliable , ensuring the continuous operation of the system, and provides more space for the file system.

Built-in 2Gbit DDR makes the product run faster and provides more possibilities for function expansion.



### Gigabit Ports

Featured with 10/100/1000Mbps ports, greatly expands your network capacity, enabling instant large files transferring.

## Software



### VPN

With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.



### DDNS

By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.



### WPA3

The latest and cutting-edge Wi-Fi security protocol— WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.



### Guest Network

Guest Network separate guest access from your family network. Maintain high security across your network to help ensure your privacy is safe while online.

## Specifications

- Up to 1.8Gbps Wi-Fi 6 Speed: Enjoy smooth streaming, downloading, and gaming with extremely fast Wi-Fi 6 Speed.
- Powerful Dual-Core Processor: Powerful Dual-Core CPU ensures smooth 4K UHD streaming to Smart TVs, mobile devices and gaming consoles without buffering.
- Improved Capacity: Wi-Fi 6 uses OFDMA to improve capacity and efficiency of your network, so more devices can connect without slowing down your Wi-Fi.
- Extensive Coverage: Beamforming, independent FEM, and four antennas combine to deliver focused reception to devices far away.
- Pre-installed VPN. With built-in VPN, this router can easily establish a connection to VPN Server to transport all your online data and traffic, securing it with its encryption at the same time.
- Dynamic DNS: DDNS function solves the issue of changing residential IP addresses. By assigning a custom domain name to your home router's IP address, DDNS function will update automatically as your home IP continues to change. Compatible with 15 more DDNS providers.
- WPA3 Security: the latest and cutting-edge Wi-Fi security protocol—WPA3 provides more secure and individualized encryption in personal password safety, protecting your network from wireless hacking.
- Works with Existing Wi-Fi Devices: Backward compatible with Wi-Fi 5 (802.11ac) and earlier generation WiFi standards.

## Hardware Features

Processor	Dual-Core Processors
Flash	128Mbit (16MB)
DDR	2Gbit (256MB)
Antenna	4× Internal Omni-Directional Antennas
Interface	1× 10/100/1000 Mbps WAN Port 1× 10/100/1000 Mbps LAN Ports
Button	Pair Button, Reset Button
External Power Supply	12 V / 1A

## Wireless Features

Wireless Standards	IEEE 802.11ax/ac/n/a 5 GHz IEEE 802.11ax/n/b/g 2.4 GHz
Frequency	5 GHz, 2.4 GHz
Signal Rate	1201 Mbps (5 GHz), 574 Mbps (2.4 GHz) Compatible with 802.11a/b/g/n/ac/ax Wi-Fi standards
Transmit Power	CE: <20dBm(2.4 GHz), <23dBm(5.15 GHz~5.25 GHz) FCC:<30dBm(2.4 GHz & 5.15 GHz~5.825 GHz)
Wireless Modes	Enable/Disable Wireless Radio, WMM WEP, WPA/WPA2,
Wireless Functions	WPA-PSK/WPA2-PSK, WPA3

## Software Features

WAN Type	Dynamic IP/Static IP/PPPoE
DHCP	Server, DHCP Client List, Address Reservation
Dynamic DNS	Compatible with 15 more DDNS providers.
Guest Network	2.4 GHz guest network × 1 5 GHz guest network × 1
NAT	Port Forwarding, Port Triggering, UPnP, DMZ
VPN Sever & Client	PPTP/L2TP/OpenVPN/WireGuard/IPSec/Zerotier
Working Mode	Wi-Fi Router/ Wireless Access Point/Wi-Fi Extender/ WISP
CWMP Protocol	TR069 / TR098 / TR111 / TR181
ACS Server Compatibility	GenieACS, OpenACS
Management	Access Control, Local Management, Remote Management, Wake on LAN
TTL	Extend/Spoof/Custom
DNS	Cloudflare/Google/NextDNS/Custom
Internet Protocols	IPv4 / IPv6
IPv6	Relay Dynamic(SLAAC/DHCPv6) Static (Fixed IP) Passthrough MAP-E (Dual-stack) DS-Lite (Dual-stack)

## Others

Package	3-Pack AX1800 Wi-Fi6 Mesh Router
Contents	Power Adapter RJ45 Ethernet Cable Quick Installation Guide
System Requirements	Microsoft Windows 98SE/NT/2000/XP/Vista™/7/8/8.1/10/11, MAC OS, NetWare, UNIX or Linux Internet Explorer 11, Firefox 12.0, Chrome 20.0, Safari 4.0, or other Java-enabled browser Cable or DSL Modem Subscription with an internet service provider (for internet access)

## CE DECLARATION OF CONFORMITY

For the following equipment:

**Product Name:** AX1800 Whole Home Mesh WiFi System

**Model Number:** M1800

**Trademark:** Cudy

We declare under our own responsibility that the above product satisfies all the technical regulations applicable to the product within the scope of Council Directives:

**Directive 2014/53/EU, Directive 2011/65/EU, Directive (EU) 2015/863**

The above product is in conformity with the following standards or other normative documents:

**EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN 301 489-52 V1.2.1**

**EN 55032: 2015+A11:2020**

**EN 55035: 2017+A11:2020**

**EN50663: 2017 EN50566: 2017**

**EN62209-2: 2010+A1:2019**

**EN 62479: 2010**

**EN 300 328 V2.2.2 ETSI EN 301 893 V2.1.1**

**EN 301 908-1 V15.1.1 EN 301 908-13 V13.2.1**

**EN IEC 62368-1: 2020+A11: 2020**

**IEC 62321-1:2013, IEC 62321-2:2021,**

**IEC 62321-3-1:2013, IEC 62321-5:2013,**

**IEC 62321-4:2013+AMD1:2017 CSV,**

**IEC 62321-6:2015, IEC 62321-7-1: 2015,**

**IEC 62321-7-2:2017, IEC 62321-8:2017**

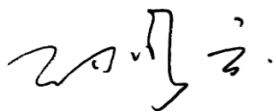
Person responsible for making this declaration:

Sun Qiaoyun

Regulatory Compliance Manager

Place of issue: Shenzhen, China

Date of issue: 2022-8-23



Shenzhen Cudy Technology Co., Ltd.

Room A606, Gaoxinqi Industrial Park, Liuxianyi Road, Baoan District, Shenzhen, China

[www.cudy.com](http://www.cudy.com)



## ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ

Για τον ακόλουθο εξοπλισμό:

**Όνομα Προϊόντος:** AX1800 Whole Home Mesh WiFi System

**Αριθμός Μοντέλου:** M1800

**Εμπορικό Σήμα:** Cudy

Διακηρύσσουμε με κάθε ευθύνη ότι το παραπάνω προϊόν συμμορφώνεται με όλους τους τεχνικούς κανονισμούς που ισχύουν για το προϊόν, εντός του αντικειμένου των Κοινοτικών

Οδηγιών:

**Οδηγία 2014/53/ΕΕ, Οδηγία 2011/65/ΕΕ, Οδηγία (ΕΕ) 2015/863**

Το παραπάνω προϊόν βρίσκεται σε συμμόρφωση με τα ακόλουθα πρότυπα ή άλλα έγγραφα συμμόρφωσης

**EN 301 489-1 V2.2.3 EN 301 489-17 V3.2.4 EN 301 489-52 V1.2.1**

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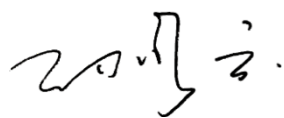
Υπεύθυνος για τη δήλωση αυτή:

Sun Qiaoyun

Διευθυντής κανονιστικής συμμόρφωσης

Τόπος έκδοσης: Shenzhen, Κίνα

Ημερομηνία έκδοσης: 2022-8-23



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