



Ingate E-SBC

Ingate SIParator® 51/56/66

The Ingate SIParators 51, 56 and 66 are powerful tools for businesses wanting to step up to the next level of using VoIP and other IP-based realtime communications, and to do so not only within the company, but outside the enterprise as well. The Ingate SIParator® from Ingate® Systems works seamlessly with an existing firewall to allow the traversal of SIP traffic through the enterprise edge. While traditional firewalls block SIP traffic – including mission-critical applications like VoIP – the SIParator resolves this problem while working in tandem with your existing security solutions. With the SIParator, businesses can harness the productivity and cost-saving benefits of VoIP and other IP-based communications while maintaining current investments in security technology.

Ingate's SIParators are installed all over the world. Common scenarios: enterprises connecting to Internet telephony service providers (ITSP) and SIP trunks, connecting remote users and branch offices to use the corporate IP-PBX, and many more.

Ingate's SIP proxy-based solution delivers maximum control over SIP signaling, traffic, and network security. With Ingate products, enterprises can use VoIP and other live communications on the LAN as well as globally over the Internet or private IP networks.

Ingate SIParators 51/56/66

The Ingate SIParators 51/56/66 have four ports each. The smallest – the SIParator 51 – can handle up to 150 concurrent RTP sessions. The Ingate SIParator 56 can handle up to 400 concurrent RTP sessions and the Ingate SIParator 66 has a capacity of 1000 concurrent RTP sessions. The software upgrade module available for the Ingate SIParator 51 and 56 offers enterprises the flexibility to buy only as much capacity as needed. Capacity can be added at any time. Hardware and the functionality are otherwise identical for all three models.

Included in the Ingate SIParator 51/56 and 66 are five SIP session licenses, allowing up to five calls to traverse at the same time. Additional SIP session licenses can be purchased at any time.

Ingate SIParators feature an encrypted Virtual Private Network (VPN) termination module. The SIParators can be configured as a part of the DMZ or in a standalone mode. In both cases, the benefits of SIP-based communications can be added to the network quickly and easily.

Trusted Network Security for VoIP

Ingate's SIP proxy architecture grants fully secure traversal of the SIP traffic. Ingate products support Transport Layer Security (TLS) for secure SIP signaling. They also support encrypted SRTP (Secure Realtime Transport Protocol), providing a high level of security for live data with advanced encryption, confidentiality, message authentication and replay protection. When combined, these protocols further shield users from eavesdroppers, hackers and spoofers.

Intrusion Detection System/Intrusion Prevention System (IDS/IPS) has become a crucial security measure for enterprise deployments of SIP. IDS/IPS works in tandem with Ingate's existing security technologies, further strengthening security for VoIP, SIP trunking, Unified Communications and other SIP applications.

Support for SIP Trunking

More and more Internet telephony service providers offer a SIP trunk – a combined Internet and voice connection. For enterprises using an IP-PBX, SIP trunks are an ideal cost-saving solution as they no longer need local PSTN gateways or costly PRIs/BRIs. The service provider provides the PSTN connection. However, in order for SIP trunks to work, SIP traffic (as well as all other data traffic) must be able to traverse the enterprise firewall. Ingate's SIP Trunking software module, available for all Ingate SIParators, enables firewall and NAT traversal using the built-in SIP proxy, allowing the enterprise to connect to the SIP trunk.

In addition, Ingate SIParators and the Ingate SIP proxy deliver advanced security for all SIP communications, including those via a SIP trunk. Ingate products also help ease compatibility issues between the IP-PBX and Internet telephony service provider.

Choose the Right Features for Your Network

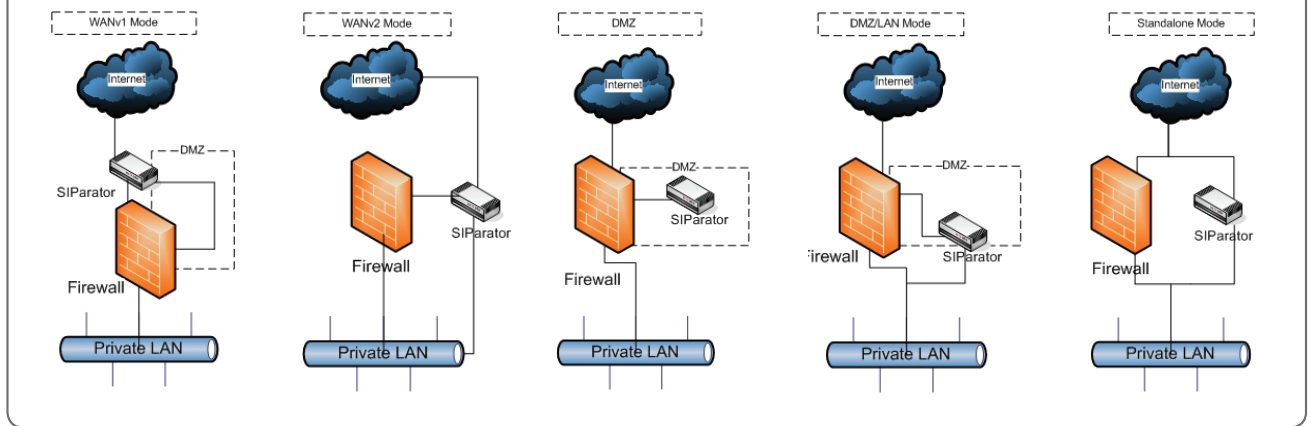
Ingate's add-on software modules allow you to tailor the SIParator to meet the specific demands of your business:

- Ingate Remote SIP Connectivity allows remote and mobile workers to work from behind a NATing device at home, a hotel or wireless hotspot and make and receive calls using the PBX located at the corporate headquarters.
- Ingate Enhanced Security allows support for Transport Layer Security (TLS) and encrypted SRTP (Secure Realtime Transport Protocol).
- VoIP Survival allows an enterprise using a CENTREX or hosted PBX solution to fail over to the Ingate, to enable internal calls and redirect outside calls to a local PSTN gateway.
- Quality of Service (QoS) ensures excellent voice quality by setting priorities and allocating bandwidth properly.

Global VoIP Connectivity for your IP-PBX

Ingate SIParators open up a world of possibilities and cost savings when used with a SIP-based IP-PBX. Businesses can not only connect to a SIP trunk, but also route telephone calls via IP, between branch offices, home workers, offices and others using SIP-based VoIP. With an Ingate SIParator, the enterprise is no longer limited to voice; communication can also include video, instant messaging, presence and more.

Flexible deployment



Technical Specifications Ingate SIParators

Feature	Ingate SIParator 21	Ingate SIParator 51	Ingate SIParator 56	Ingate SIParator 66	Ingate SIParator 95	Ingate SIParator 96
Interfaces (10/100/1000 Mbit/s)	4	4	4	4	6	6
Redundant power supply	No	No	No	No	Yes	Yes
Type of disk	Compact Flash	HDD	HDD	HDD	RAID 1	RAID 1
Dimension WxDxH (mm)	300x145x44	426x365x44	426x365x44	426x365x44	772x426x43	772x426x43
Certifications	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL	CE, FCC, UL
Power consumption (typical)	25 W	100 W	100 W	100 W	200 W	200 W
Power supply 100 – 240 VAC, 50-60 Hz	External	Internal	Internal	Internal	Internal	Internal
Automatic check for new releases	Yes	Yes	Yes	Yes	Yes	Yes
Management/Configuration options: Web GUI (HTTP, HTTPS) and CLI (SSH, serial cable)	Yes	Yes	Yes	Yes	Yes	Yes
SNMP V2, V3	Yes	Yes	Yes	Yes	Yes	Yes
Max numbers of VLANs	16	32	64	128	256	256
Internal log to HD	No	Yes	Yes	Yes	Yes	Yes
Logging to PCAP file	Yes	Yes	Yes	Yes	Yes	Yes
Syslog	Yes	Yes	Yes	Yes	Yes	Yes
E-mail events	Yes	Yes	Yes	Yes	Yes	Yes
External RADIUS server authentication for GUI and SIP	Yes	Yes	Yes	Yes	Yes	Yes
Support for multiple ISPs	Yes	Yes	Yes	Yes	Yes	Yes
Free software upgrades	First year	First year	First year	First year	First year	First year
SIP Functionality						
SIP proxy	Yes	Yes	Yes	Yes	Yes	Yes
SIP registrar	Yes	Yes	Yes	Yes	Yes	Yes
SIP traffic to private IP addresses (NAT/PAT)	Yes	Yes	Yes	Yes	Yes	Yes
SIP Connection set up (SIP + RTP), max calls/s	15	30	30	30	50	50
RTP data delay (10 Mbps/100 Mbps) network	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms	0.19/0.08 ms
Max number of concurrent calls (20 ms voice packets)	50	150	400	1000	1800	3000
Concurrent encrypted voice RTP sessions, both transcoding SRTP and TLS. (With Enhanced Security Module)	50	150	400	700	1300	1300
Billing and authentication of SIP users from an external RADIUS	Yes	Yes	Yes	Yes	Yes	Yes
Add-on modules						
SIP Trunking (connecting an IP-PBX to an ITSPs SIP-trunk)	Yes	Yes	Yes	Yes	Yes	Yes
Remote SIP Connectivity (Far-end NAT Traversal incl STUN-server)	Yes	Yes	Yes	Yes	Yes	Yes
QoS (bandwidth limitation and prioritization)	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced Security (SRTP and TLS)	Yes	Yes	Yes	Yes	Yes	Yes
VoIP Survival (VoIP redundancy if Internet connection fails)	Yes	Yes	Yes	Yes	Yes	Yes
SIP Registrar (Ingate is used as the primary SIP registrar)	Yes	Yes	Yes	Yes	Yes	Yes

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