SX1000 Specification

Physical specification	Description
Chassis type	1U × 19 inch mental chassis
Dimension (H X W X D)	44 × 440 × 440 mm
Net weight	5 kg
Ethernet connector	3 × RJ-45, 10/100 Base-T, auto sensing
Configuration interface (CON)	RJ-45
LED	PWR, ETH, STU, ALM
Power consumption	70 W
Working temperature	0～40°C
Storage temperature	-10～60°C
Working humidity	10% ～ 90%RH(non conducing)
Storage humidity	5% ～ 90%RH (non conducing)
Power	
Input voltage	100~240 AC, 50~60 Hz. input current 1AMP max.
Power adaptor	Chinese GB-2099, Euro CEE7/7, North American NEMA5-15
Hardware	
Main control CPU	Motorola PowerPC 8250
DSP chip	TI C5509
RAM	128M
Flash memory	8M
Performance	
Call capacity	100 concurrent calls with TLS encryption and decryption. 200 concurrent calls without encryption and decryption
User registration	500 SIP terminals with encrypted registration, 1000 SIP terminals with un-encrypted registration
Packets transfer delay	< 30 microseconds
Protocol	
SIP	Support RFC3261/3262/3264/2976，RFC4028（SESSION TIMER），RFC5009（Early Media），RFC3966，RFC2617, RFC3323
TCP/UDP/IP	Support
MSRP	Support
PPPoE	Support
RTP/RTCP	Support
HTTP	Support
ARP	Support
DNS	Support
DHCP	Support
NTP/SNTP	Support
TFTP	Support
ICMP	Support
Maintenance	
TR069	Support
Telnet	Support
Web GUI for management	With Chinese and English
RS-232 console	Support
Remote upgrade	Support
Remote configuration and maintenance	Support
Export/Import data	Support
Auto provision	Support
Static IP address	Support
Version info	Including the hardware and software version information
Terminal status	Registion and operation status
System time	Support
syslog	Support
Security for management	Password and authorized IP address
Logon levels	Two levels: administrator and operator
Functions	
Voice and video communication	Support
Signaling and/or voice encryption	Supports TLS/SRTP and other encryption scheme
Voice processing	RTP packet forward, firewall traversal, local/remote user NAT traversal
Multiple softswitch platforms	Connections to multiple ITSP servers
Security policies	Access control through IP table, conceal of NAT address, encryption & decryption on signaling and/or voice media streams, blocking calls from untrusted devices, discarding unknown messages, security log file
Registration and authentication	Support registration and authentication of SIP terminals
QoS	Support IP TOS and DSCP
Ethernet interface	
Message forwarding	After receiving registration messages, SX1000 checks the softswitch address and the IP address of each Ethernet interface. If the IP address of one of the Ethernet interfaces is in the same network segment as that of the softswitch, SX1000 uses this Ethernet interface for message forwarding. If no IP address of all the three Ethernet interfaces on SX1000 is in the same network segment as that of the softswitch, SX1000 forwards registration messages through a logical IP address. The logical IP address can be queried in the Network tag of the GUI and cannot be changed. By default, the IP address of Ethernet interface 1 is used as the logical IP address. If Ethernet interface 1 is not configured, the IP address of Ethernet interface 3 will be used as the logical IP address. If only the IP address of Ethernet interface 2 is configured, the IP address of Ethernet interface 2 is used as the logical IP address.
Default gateway	If the gateway address is configured for all the three Ethernet interfaces, the IP address of Ethernet interface 2 is the default gateway. If Ethernet interface 2 is not used or configured with the gateway, the IP address of Ethernet interface 3 is the default gateway. If only Ethernet interface 1 is used, the IP address of Ethernet interface 1 is the default gateway.
Authentication	
FCC	Support
CE	Support
ROHS	Support