

SmartNode™ Model 5530 2–8 BRI eSBC/IAD



Integrated Access Device (IAD)



Enterprise Session Border Controller (eSBC)

Specifications

Voice Signaling

SIPv2
SIPv2 over TLS
SIP call transfer, redirect
Overlap or en-bloc dialing
DTMF in-band, out-of-band
Configurable tones

Call Routing & Services

Regular expression number matching
Regular expression number manipulation
Least Cost Routing
Number blocking
Short-Dialing
Digit collection
Distribution-Groups and Hunt-Groups

ISDN

2/4/8 BRI ports*, RJ45
NT/TE configurable per port
Built-in line power on each port (total 4W)
DSS1, Q.921, Q.931, NTT-64
HP High Precision Clock
Stratum 3 CO
Point-point and point-multi-point
Lifeline Bypass Relay*
Optional QSIG support**

Voice Processing

G.722
G.711m/A-law G.723.1 (6.4 kbps)
G.729, 729a, 729ab (8 kbps)
G.726 (16, 24, 32, 40 Kbps)

G.168-2004 echo cancellation (128 ms)
4/8/16 simultaneous low-bandwidth voice or T.38 fax calls
Up to 16 HD calls with SRTP*
Up to 200 SIP to SIP calls**
Up to 8 SIP transcoded calls*
Transparent ISDN data
Silence suppression and comfort noise
Adaptive and configurable dejitter buffer
Configurable packet length

SIP Session Capacity

4 SIP Sessions, license upgradeable up to 200***

IP Quality of Service

Voice priority,
DownStreamQoS™
Traffic Management, shaping
policing
IEEE 802.1p, IEEE 802.1Q,
4096 VLANs (Tag
insertion/deletion), TOS,
DiffServ Labeling, PacketSmart
Network analyzer

Connectivity

Two 10/100/1000Base-T
Ethernet ports
USB 2.0 host port Auto-MDIX
DHCP Client
PPPoE Client (multi-session)
IP Multi-Netting, VLAN,
Secondary IP
IPv4 and IPv6 dual stack,
ICMP
Dynamic and static NAT and
NAPT

ACL, Stateful Firewall DNS,
DynDNS DHCP Server
SNTP Client

Broadband Access

ADSL/VDSL: VDSL 2, G.hs,
G.Vectoring, up to profile 30a
support • ADSL2, ADSL2+,
Annex, A/L/M** or B/J** • IPoA,
IPoEoA, PPPoA, PPPoEoA
(RFC2364, RFC2516)

G.SHDSL-ATM: 4-wire
G.SHDSL ITU-T G991.2, Annex
A, B, F, G • Up to 11.4 Mbps •
PPPoE • PPPoA, IPoA, 8PVCs,
each UBR, CBR or VBR-rt
selectable • I.610 OAM F4/F5
support • G.994.1 (G.hs)

G.SHDSL-EFM: EFM mode
compliant to IEEE 802.3
G.998.2 • PPP over Ethernet
(RFC2516) • Support of OAM
PDU information and function-
ality (ITU-T Y.1731) • OAMPDU
event notification, variable
request, variable response, and
loopback control

Fiber: SFP slot for fiber WAN
uplink • 100Base-T and GigE
support • Up to 8 VLANs •
PPPoE

Management

Customizable WebWizard,
Web-based GUI, CLI Telnet
and
HTTP access
TR-069, TFTP, HTTP, HTTPS
configuration up- and down-
load
TR-069, TFTP, HTTP, HTTPS
firmware upgrade, Dual Image,
SNMPv3 agent

Separate config domain (LAN
side config and WAN side
config), MIB II and private MIB,
Built-in diagnostic tools
Secure Auto-Provisioning with
built in root CA

Power Consumption

External Power: 100–240 VAC
(50/60 Hz) | Consumption
<10W

Packaging

Desktop/Wall-mount plastic
chassis

Dimensions

Plastic Enclosure
Dimensions: 8.2 x 1.3H x 6.5D
inch (20.8W X 3.4H x 16.5D
cm)

Weight: <15.9 oz. (<450 g)

Metal Enclosure

Dimensions: 12.11W x 1.77H
x 6.09D inch (30.75W X 4.49H
x 15.46D cm)

Weight: 25.6 oz (725 g)

Environment

Operating temperature: 32–
104°F (0–40°C)
Operating humidity: up to 90%,
non-condensing

Compliance

FCC Part 15 Class A (US EMC)
CE per RTTE 99/5/EC (EMC
and LVD)

Safety

EN60950
TBR-3 (ISDN BRI/So)

Specifications subject to change without notice | * Depending on model | ** Licensed Feature at additional charge | *** Supports up to 200 SIP-to-SIP calls under ideal conditions. Transcoding, debugging and/or IP Routing reduce processing capacity.



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