

SmartNode™ ISDN BRI VoIP Gateway

Model 4130



*With up to 8 BRI ports and 16 simultaneous G.711 voice channels, the SN4130 is the best way to connect ISDN networks or ISDN terminal equipment to the world of voice over IP. With built-in security features such as HTTPS provisioning, Stateful Firewall and optional SIP-TLS** it provides business-class Internet telephony for demanding ISDN users.*

Advanced Local Call Switching

Virtual interfaces and routing tables provide industry leading flexibility in call handling programming. Local call switching, soft fallback to alternative routes. Simultaneously connects to multiple SIP services/IP PBXs.

Complete SIP and T.38 Support

Complete VoIP support: SIPv2, SIPv2 over TLS, T.38 fax, fax and modem handling, DTMF relay. HD voice codecs

Easy Management & Provisioning

WebWizard, HTTPS zero touch provisioning, SNMP, command line interface. Automated mass provisioning for efficient large-scale deployments.

Security & VoIP Quality

Open-VPN, IPSec, TLS, fraud prevention & protection, stateful Firewall DSCP, ToS Diffserv labeling, PacketSmart™ Network Assessment & Monitoring

Optional eSBC upgrade for BRI Gateways with 2 Ethernet Ports

Models containing "SN4131/2ETH" can be converted into high performance enterprise session border controllers (eSBC) simply by purchasing a software license. This capability prepares your voice network for next-generation SIP services and security.

For details about the upgraded SN4131 eSBC's capabilities, refer to the model SN5530 eSBC specifications.

The SmartNode 4130 series are the next-generation ISDN BRI models of the proven market-leading SmartNode VoIP product family. The available 2, 4, or 8-port configurations fit the requirements of small and medium-sized enterprises looking for a cost-effective way to bridge PBX systems on multiple sites or connect them to a public Internet telephony service.

By connecting a PSTN line and an ISDN PBX to the SmartNode, it is secured against SIP trunk outages (fallback routing). If available, the PSTN line can also synchronize the gateway. For applications without a PSTN line available, the optional ISDN HP (high precision clock) provides error-free ISDN data and fax transmissions.

The SN4130 series comes with the option to have 2 Ethernet ports populated. This gives a clear upgrade path for converting the gateway into an eSBC. Models containing "SN4131/2ETH" are capable of accepting a software license to achieve this additional functionality future proofing your voice network for next generation SIP services and security. Interested in upgrading a 2ETH Gateway model to become an eSBC? See the eSBC specs of the model SN5530.

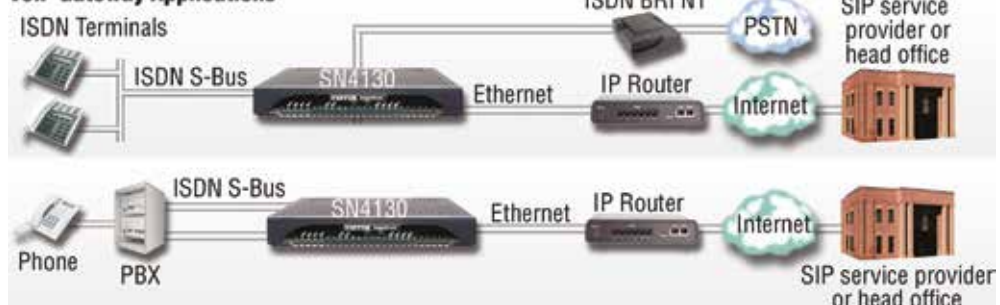
Like every Trinity SmartNode, the SN4130 comes with a built-in Web Wizard for easy configuration. Build your own web interface using the Web Wizard functionalities.

Network Integration

The SmartNode 4130 provides excellent VoIP and security features for seamless network integration. All BRI ports are configurable to be TE or NT, you can thus connect your telco line(s) as well as a PBX or ISDN terminals.

Terminals are powered with the built-in power supply, eliminating the need for an external box. For business class IP telephony at the tip of your fingers, the SmartNode 4130 is more than just talk!

VoIP Gateway Applications



Smooth Migration to eSBC Application On /2ETH models (requires software license)



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2-Ethernet-port upgradeable option

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- and Hunt-Groups

ISDN

2/4/8 BRI S0 ports***, RJ-45
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

Optional QSIG support**

Voice Processing

G.722
G.722.2 WB-AMR
G.711m/A-law
G.723.1 (6.4 kbps)
G.729, 729a, 729ab (8 kbps)
G.726 (16, 24, 32, 40 kbps)
iLBC at 13.33 & 15.2 kbps
G.168-2004 echo cancellation (128ms)
4/8 simultaneous low-band-width voice or T.38 fax calls
2/5 HD calls with SRTP
Transparent ISDN data
Silence suppression and comfort noise
Adaptive and configurable dejitter buffer
Configurable packet length

Packet Tagging and VLAN

IEEE 802.1p, IEEE 802.1Q, 4096 VLANs (Tag insertion/deletion), TOS, DiffServ Labeling

Connectivity

1 or 2 10/100/1000Base-T Ethernet ports

USB 2.0 host port
Auto-MDIX
DHCP Client
PPPoE Client (multi-session)
VLAN support, Secondary IP
IPv4
Basic IPv6
ICMP
ACL
DNS, DynDNS
DHCP Server
SNTP Client

Management

Web-based GUI
Web Wizard
Fully Documented CLI
Telnet and HTTP access
TFTP, HTTP, HTTPS configuration up- and download
TFTP, HTTP, HTTPS firmware upgrade
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

< 10W

Packaging

Desktop/Wall-mount plastic chassis

Dimensions

8.2W x 1.3H x 6.5D in.
(20.8W x 3.4H x 16.5D cm)

Weight

<450g (15.9 oz)

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)