

# 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.

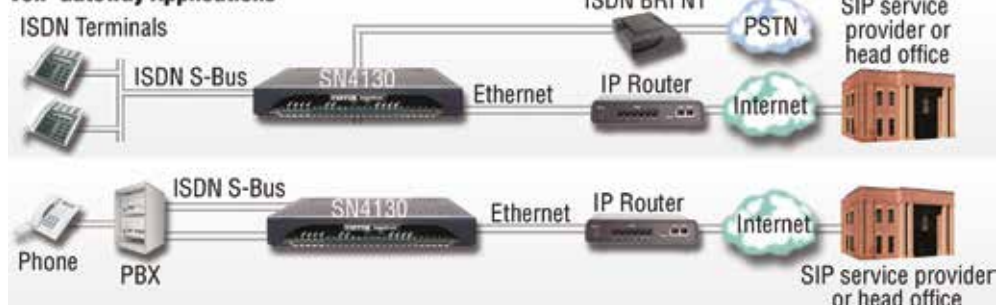
Like every Trinity SmartNode, the SN4130 comes with a built-in Web Wizard for easy configuration. Build your own web interface using the Web Wizard functionalities.

## 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



# SmartNode™ Model 4130 ISDN BRI VoIP Gateway



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-bandwidth 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)