

IPNx Digital Gateway – Toll quality VoIP, Real time fax plus 16:1 compression in a small footprint

Cost effective E1/T1 VoIP gateway from World Telecom Labs

IPNx Digital Gateway allows up to 16 E1s, 480 channels of voice / fax VoIP in ultra compact 1U box.

IPNx Digital Gateway used together with the PVx Packet Voice Xcellerator allows high quality, 16:1 compressed VoIP traffic using WTL's patented NOP voice packetisation techniques.

Select form 1, 2, 4, 8 or 16 ports , E1 or T1



Capacity upgradeable in service

The IPNx Digital Gateway (IPNx DG) is a compact, low cost way of connecting E1 interfaces to the VoIP world. The unit offers from 1 right up to 16 T1 or E1 ports and supports 30 to 480 channels of voice or fax traffic. IPNx DG can be used to connect to E1 trunks from carriers for toll bypass applications or to customer PABXs to create private corporate networks. Replaces the need for expensive leased lines.

The IPNx Digital Gateway is used together with the PVx (Packet Voice Xcellerator) to allow high quality, 16:1 compressed VoIP traffic to be generated cost effectively, using WTL's patented NOP techniques.

The IPNx Digital Gateway is simple to set up and is fully remotely manageable.

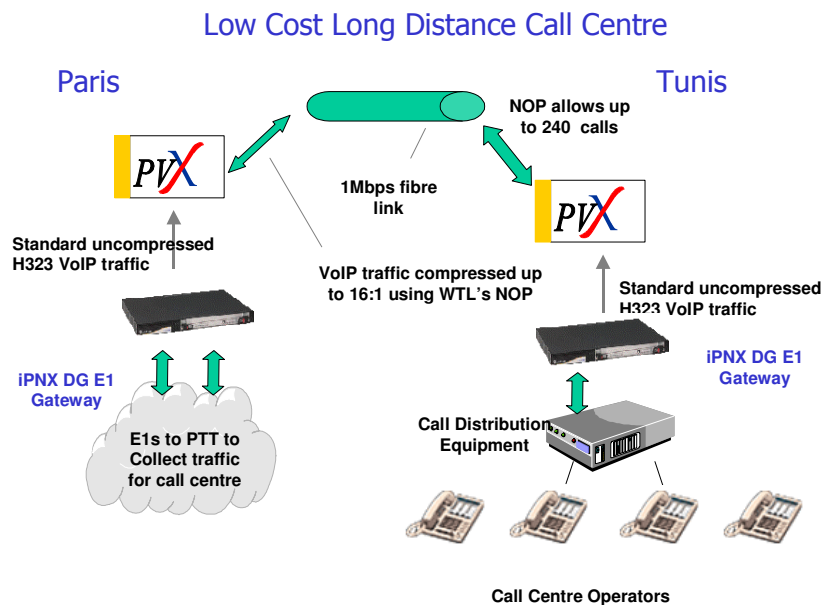
The capacity of the unit can be expanded as required – no need to pay for ports until you need them.

Features

- IPNx Digital Gateway supports 1 to 16 T1 or E1 ports
- ISDN PRI signalling plus CAS (R2) supported
- "Pay As You Grow" – unit expands to give number of ports required
- Field expansion is easy – based on software keys
- 30 to 480 channels of fax or phone traffic
- Dual redundant LAN port 10 or 100Mbps
- Remote management by telnet or browser
- Local management port
- Remote software download for field upgrades
- VoIP with G711, G723.1, G726, G728, G729A plus Fax over IP
- T38 Group 3 Fax
- Echo cancellation: G165, G168 with 32, 64 or 128 msec echo tail
- Silence suppression and comfort noise generation for excellent voice quality
- True 16:1 compression with the PVx Packet Voice Xcellerator

Applications

- Ideal for low cost remote POP
- Use with PVX to groom traffic for transmission over satellite
- No need for costly voice resources at the edges of the network
- Perfect leased line replacement
- PBX interface allows corporate traffic to be collected
- Concentrate traffic in remote country for international toll bypass
- Can be connected to call center equipment
- Low cost traffic termination
- Interoperability – IPNx DG interworks via an IP network with any 3rd party VoIP switch/gateway



IPNx Digital Gateway Specification

Signalling: Telecoms	ISDN PRI (Euro ISDN, ANSI NI2, DMS, 5ESS, QSIG Basic Call, Japan, Australia, Hong Kong, New Zealand) CAS (MFC/R2 numerous country variants) SIP, H323 V4
VoIP	
Dimensions	Width: 488mm (19") x height: 45mm (1.75") x depth: 310mm (12.2")
Environmental	Temperature: 0-40 °C Humidity: 0-90% (non-condensing)
Power	Single 90-260 VAC (dual redundant option) or -48V DC
Regulatory	EMC: CE Mark (EN55022 Class B, EN55024) FCC Part 15 Class B
	Safety : EN60950, IEC60950, UL60950 Telecoms: TBR4, TBR13, FCC Part 68

Upgrade Options

	Upgrade to 2 E1	Upgrade to 4 E1	Upgrade to 8 E1	Upgrade to 16 E1
Upgrade from 1 E1	Y	Y	N	N
Upgrade from 2 E1	--	Y	Y	N
Upgrade from 4 E1	--	--	Y	N
Upgrade from 8 E1	--	--	--	Y