

Parlay VoXip 108 and 116

VoIP Gateways with ISDN interfaces



Data Sheet

03.2004

Mechanics

Height:	1 unit (44 mm)
Width:	19" rack fit (438 mm)
Depth:	7" (176 mm)
Weight:	2.5 kg

Environment

Compliant to ETS 300 019, part 1-3	
Operating temperature:	5 - 45 deg. C, no direct sunlight
Operating humidity range:	5 - 95 % R.H., non-condensing
Heat Dissipation:	55 BTU

Regulatory Information

R&TTE Directive 99/5/EEC:	
- ISDN TBR 3	
- Protection ETS 300 047-3	
Low Voltage Directive 73/23/EEC:	
-EN 60950	
EMC Directive 89/336/EEC:	
- Emission EN 55022 Class B	
- Immunity EN 55024	
- Harmonics EN 61000-3-2	

Power Supply

Switch mode power supply built-in	
Input voltage:	110 - 263 VAC
Power consumption:	6 VA average, 15 VA peak
Power backup:	Via monitored UPS, UPS alarm notification by e-mail

Data Interface, physical

Ethernet, 10/100BaseT auto-sensing
RJ45, with Rx/Tx and Link indicator

ISDN Interfaces, physical

4 ISDN Basic Access Inter- faces (VoXip108)	Terminal feeding, normal power condition, short circuit proof,
8 ISDN Basic Access Inter- faces (VoXip116)	100 ohms termination, RJ45 with port status LED

ISDN Interface variants

VoXip 108 interfaces in TE/NT mode:	0 TE / 4 NT, 1 TE / 3 NT and 4 TE / 0 NT (2 TE / 2 NT is planned)
VoXip 116 interfaces in TE/NT mode:	0 TE / 8 NT, 1 TE / 7 NT and 8 TE / 0 NT (4 TE / 4 NT is planned)

ISDN Signalling

Euro-ISDN protocol according to ETS 300 102
Point-Point and Point-Multipoint, including line hunting
Supports national dialects: VN2-VN6 (France), 1TR6 (Germany),
INS64 (Japan), BAKOM (Schweiz)

Voice/VoIP Features

Voice Compression:	G.711 (64kbit/s PCM), G.726 (32kbit/s ADPCM), A-/μ-law
Echo Cancellation:	G.165 (32 msec tail)
Silence Suppression:	Yes
Voice Activity Detection:	Yes

Comfort Noise Generation:	Yes
IP-link supervision:	Yes, seamless re-routing of calls via ISDN when IP-link is poor
QoS means:	IP Type of Service (DSCP marking)
Static Routes:	17
IP signalling:	Proprietary. SIP (Session Initiation Protocol) is available by mid 2004. H.323 is planned.
Average IP bandwidth:	80 kbit/s (G.711) or 40 kbit/s (G.726) without silence suppression
Number of IP calls:	8 (VoXip 108) or 16 (VoXip116) simultaneous calls

Voice Switching Features

Local switching:	Yes, allowing internal calls between ISDN interfaces of the Parlay VoXip
Local call progress tone generation:	Yes
Local Advice of Charge (AOC) generation:	Yes
Calling Party Number modification:	Yes, e.g. present corporate numbers
Called Party Number modification:	Yes, e.g. add Carrier Selection Code
Voice Routing Table specifying handling of calls:	Yes, routes between 8 endpoints like this: - Corporate calls (e.g. route all corporate calls via IP) - Toll bypass (e.g. route via IP to branch and drop out to ISDN there)

Synchronisation

Onto ISDN TE line
Onto built-in free running clock, precision better than 50 ppm
Real Time Clock with one week of power backup (optional)

Programming

Via RS232 using terminal-program, menu-driven user interface
Via built-in web server providing a Graphical User Interface
Routing Table upgrade via built-in web server
Software upgrade/backup using FTP or TFTP

Operational Security

Relay bridging between first ISDN TE and NT interface in case of
power failure
Built-in ISDN protocol analyser for OSI layers 1, 2 and 3
Power backup via UPS, monitored by the Parlay VoXip
Seamless re-route via ISDN line if IP-link is poor

Interoperability

The Parlay series of ISDN Multiplexers have been serving
more than 1 million B-channels in Europe, Africa, Asia and
Australia.

