

iG334 – Digital Gateway

Channel Capacity

- 4 x E1/T1 Channel Associated Signalling (CAS)
- Fractional E1/T1 Channel Associated Signalling (CAS)

Call Types

- Hoot 'n' Holler
- Private Wires (PLARD and MRD)

Protocol Conversion of SBRTP LAN to:

- Unicast WAN (UDP)
- E1/T1 Channel Associated Signalling (CAS)

Signalling Types

- Call Types
 - Hoot 'n' Holler
 - Private Wires (PLARD/PLMRD)
- Signalling Types
 - Private Wire (ARD/MRD) E&M Immediate, Wink or Delay Start
 - Private Wire (ARD/MRD) FXO and FXS Loop or Ground Start
 - Hoot 'n' Holler No signalling
- Customisable CAS Settings
 - D4 PLAR Custom 1 to 3
 - Ring Down Custom 1 to 3

Mixing Capability

- Upto 4 x 30 unique groups that are able to interconnect with the following audio sources, IP WAN links, E1/T1 Channels and SBRTP Channels¹

Network Requirements

- Upto 4 Network 100BASE-TX (full duplex)
- IP addressing: dynamic or static
- Voice LAN: Multicast network utilisation IGMP and supporting SBRTP
- Other supported network protocols: Ethernet, IPv4, DHCP, TCP/IP, DNS & HTTPS

VoIP Media

- Supported Codec types on the WAN: G.711 PCM 3.4KHZ A-law/U-law, G.722 (48K), G.729 Annex A – CS-ACELP
- Speakerbus Trader Voice on LAN: Speakerbus Real Time Protocol (SbRTP) enhanced– 7KHZ voice bandwidth
- Typical latency over LAN 6ms (using 1ms packet sizes)
- Max Packet Loss on the LAN 5%
- Bandwidth optimisation techniques: VAD (Voice Activity Detection)
- Diffserv (RFC 2474) –Type of service field configurable

System Management

- iCMS iManager Portal application
- On-board web browser
- Browser support either IE 6.0 or higher and Mozilla Firefox 3.0 or higher
- Upgradeable operating firmware

Status Indicators

- Power supplies 1 and 2
- Software status
- Ethernet ports status
- LAN TX and RX
- WAN error
- T1/E1 alarms:- LOS, LOF, AIS & RAI

Dimensions

- 2U high 19" wide rack mount (with detachable rack mounting brackets)
- Width: 432 mm
- Height: 2U
- Depth: 329 mm
- Weight: 9Kg

Interfaces

- 4 x E1/T1 Line, RJ48C sockets
- 4 x E1/T1 Pass-through, RJ45 sockets
- 8 x Network interface 10/100BASE-T Ethernet auto sensing LAN, RJ45 sockets²
- 4 x 8 Pin mini din com ports (reserved for use by Speakerbus)
- 4 x Handset test sockets, RJ12
- IEC connector for PSU(s) on rear of unit

Power Requirements

- Dual redundant hot-swappable PSU's³
- Power Consumption during normal operation
 - 40W Max
- Individual PSU Rating
 - Input Voltage 100 - 240VAC
 - Input Frequency 50/60Hz
 - Input Current 2.2A Max
- BTU Output
 - 158 BTU/h Max

Operating Environmental

- Operating temperature 0°C - 35°C (32°F - 95°F)
- 10% - 90%, RH non condensing

Regulatory

- EC Directive 2002/96/EC (WEEE)
- RoHS compliance
- EMC standards - EU- EN55022, EN55024, USA - FCC part 15, JPN - VCCI V-3/2014.04
- Safety - IEC60950-1 :2005 (Ed. 2 inc A1), EN 60950-1:2001 + A11: 2004
- E1/T1 interface standards
 - ITU-T G.703/4/6
 - ITU-T G.824
 - ITU-T I.431
 - TBR 12/13
 - I.431/ETS 300 011
- Telecom approvals⁴
 - EU: TBR12/13
 - Dubai: TRA Registered

1. Limitations on the number of links/channel variants per mixer group is governed by the available onboard DSP resource
2. Redundancy support planned for a future release
3. A second PSU must be purchased separately for redundancy
4. Approvals subject to change

