iVOX1™

iVOX1 Voice-over-Packet (VoP) Processor

GV1-256E, GV1-256T and GV1-224P

GlobespanVirata's iVOX1 processor is designed to meet the needs of carriers that want to transition voice traffic from the traditional PSTN to more efficient, packet-based networks. To help carriers enable tomorrow's convergent networks, the iVOX1 processor, in conjunction with an iMUX aggregation device, provides high channel density VoP solutions with enhanced voice quality.
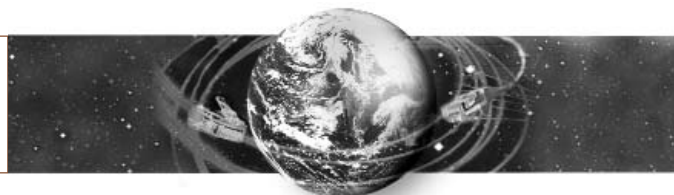
The iVOX1 is the highest density carrier-grade voice processor on the market today. With GlobespanVirata advanced, patented DSpan™ DSP technology, the iVOX1 can implement many of the popular speech codecs, including G.711, G.723.1, G.726, G.729A/B, as well as voice-band telephony functions. It also supports toll quality carrier-class echo cancellation with programmable tail length up to 128 ms on all channels. In addition, the iVOX1 processes RTP/UDP packets or AAL1/AAL2/AAL5 ATM cells, and handles adaptive jitter buffer on all its channels. With the help of the iMUX external aggregation device, the packetized voice packets of the iVOX1 are transceived to/from the IP or ATM networks.

The iVOX1 device is packaged in a small footprint (27mm X 27mm) BGA and requires no external memory.

iVOX1
GV1-224P-B0J
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GV1-224P*

* Chips as depicted are for representation only.
  Actual chips may vary from depiction.

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Features and Benefits

- Voice compression: G.711/G.726/G.723.1/G.729 A&B
- Any channel, any codec, and feature selection
- Simultaneous toll quality 32-128ms echo cancellation on all channels
- Exceeds G.168 (2000) requirements and rapid convergence time
- G.164 and G.165 fax/modem detection with the option of automatic switch to PCM
- DTMF/MF tone detection and generation
- Call progress tones
- Advanced Voice Activity Detection (VAD), Comfort Noise Generation (CNG), Silence Suppression, and Silence Insertion Descriptor (SID)
- Advanced packet loss compensation
- VoATM, AAL1/AAL2/ATM support
- VoIP, RTP/UDP/IP support
- Adaptive jitter buffer on all channels

Applications

- Multi-service access gateways for DSLAM, NGDLC and Cable Head-ends
- VoP trunking gateways for VoIP and VoATM networks
- Next-generation packet-based Class 4 and Class 5 switches

GlobespanVirata

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