



The Most Effective Way from IP to GSM

- SIP based GSM gateway
- Voice and SMS transmission
- Up to 4 GSM channels
- Substantial cost savings on calls from IP to GSM networks
- Top voice quality

2N VoiceBlue VoIP GSM Gateway

The Most Effective Way from IP to GSM

The 2N VoiceBlue GSM gateway is an ideal complementary product to any SIP-based IP PBX. It's suitable for small and medium companies with IP infrastructure and for companies with international affiliates.

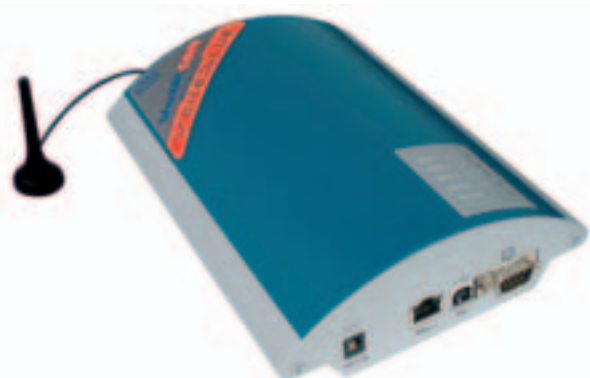
With VoiceBlue you gain significant savings on outgoing and incoming calls from IP to GSM networks and backwards. Thanks to the efficient and powerful Least Cost Router (LCR), the VoiceBlue GSM gateway always chooses the cheapest possible way to route the call (according to GSM prefixes, free minutes on SIM cards etc.).

Using VoiceBlue gateway you achieve complete independence when connecting to GSM networks and maintain 100% control over GSM call costs.

With the help of voice prompts and efficient Dynamic Clip Routing, the VoiceBlue routes incoming GSM calls to the right IP phones.

The SMS server – a network application for SMS sending and receiving – is one of additional software options. Delivery status of messages is obtained automatically.

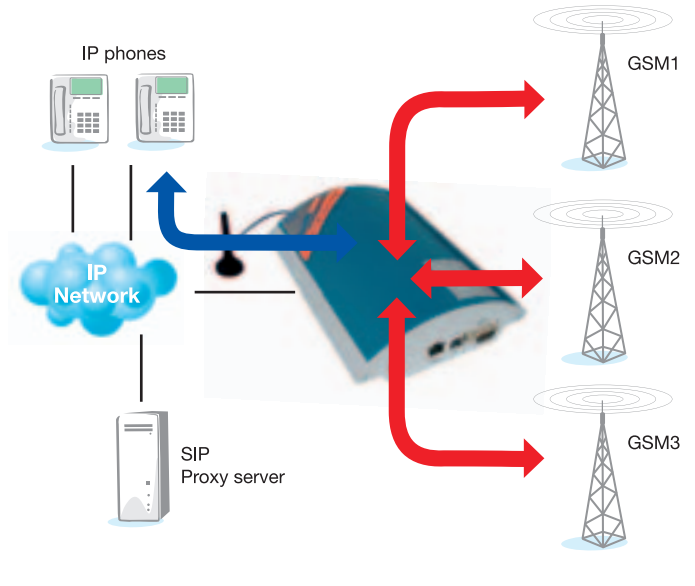
Wireless
Modules
by Siemens
embedded



2N VoiceBlue VoIP GSM Gateway

Features:

- Up to 4 GSM channels
- Standard SIP client
- Efficient Least Cost Routing (LCR) according to free minutes, time of call, prefixes of GSM operators etc.
- SMS sending & receiving
- Dynamic Clip Routing
- CallBack
- Top voice quality (EFR super sound)
- DISA with voice navigation, user defined voice message for incoming calls
- AT command based administration
- CDR buffer for up to 500,000 records, compact flash
- LOG and statistics events saving
- Integrated antenna splitter
- Worldwide use (all GSM frequencies are supported)*



Item description	Part No.
VoiceBlue – 2 GSM channels with 2 Siemens TC35i modules	505002E
VoiceBlue – 4 GSM channels with 4 Siemens TC35i modules	505004E
VoiceBlue – 2 GSM channels with 2 Siemens MC45 modules	505012E
VoiceBlue – 4 GSM channels with 4 Siemens MC45 modules	505014E
VoiceBlue – 2 GSM channels with 2 Siemens MC46 modules	505022E
VoiceBlue – 4 GSM channels with 4 Siemens MC46 modules	505024E
VoiceBlue – 4 GSM channels with 4 Siemens MC46 modules	505024US

Technical Parameters

VoIP	
Voice signalling	SIP
Number of voice channels	4
Codecs	G.711 PCM at 64 kbps G.726 and G.727 E-ADPCM at 16 to 40 kbps G.729/Annex A CS-ACELP at 8 kbps G.723.1 (optional) MP-MLQ/ACELP at 6,3/5,3 kbps
Echo Cancellation	G.168-2000; max. echo length 25 ms (15 ms for G.729A)
VAD/CNG (Silence Suppression)	G.729B for G.729A coders G.723.1A for G.723.1 coders
PCM Companding	A-law/u-law (selectable)
Protocols	
	TCP, UDP, IP, RTP, TELNET
Interfaces	
Type/connector	Lan 10/100 Base-T, RJ45 RS232 – AT interface, D-SUB9 USB 1.1 B type
GSM	
GSM engines	Siemens TC35i, Siemens MC45, Siemens MC46
Antenna	One external antenna, SMA connector, integrated antenna splitter for 4 GSM channels

Administration

Methods	AT commands, comfortable administrator SW, Win98 and up
Interface	LAN, COM port, USB
Power supply	
Type	External power adapter 230 V – 50/60 Hz to 12 V DC 1,2 A
Power dissipation	Max. 15 W
Operating Environment	
Operating temperature	0–40 °C
Operating humidity	10–95 % (non condensing)
Dimensions	
LxBxH	260x150x50 mm
Certification	
CE	EN 60 950:2000, EN 55 024, EN 55 022 Class B

* depends on the GSM engine type