

THE CSS TGWxE1-3G

ISDN/PRI VoIP Gateway powered by Tadiran



communicationsolutions



Tadiran TGWxE1-3G

Tadiran TGWxE1-3G is designed to provide connectivity between the PSTN and Aeonix UC&C.

It is available in three models - TGW1E1-3G (ISDN PRI, one E1/T1), TGW2E1-3G (ISDN PRI, two E1/T1), and TGW 4E1-3G (ISDN PRI, four E1/T1). Highly compatible with commonly deployed central office and SIP-based Aeonix telephony servers, Tadiran TGWxE1-3G is a cost-effective solution to a variety of Aeonix VoIP applications.

High Performance

Tadiran TGWxE1-3G, configured with one, two or four T1/E1 interfaces can process 120 simultaneous VoIP calls. Tadiran TGWxE1-3G embeds powerful DSP technology which possesses 4800 MIPS processing power, to support G.711, G.729A, G.723, echo cancellation G.168, DTMF relay RFC2833, fax relay T.30, T.38 and more.

TGWxE1-3G Benefits

- Flexible configuration of one, two or four T1/E1 ports
- Firmware and configuration provisioning from Aeonix
- PSTN termination for Aeonix access, toll voice quality
- Digit translation, voice announcement, second-stage dialing
- Advanced technology including SIP protocol, frequency domain echo cancellation, iLBC codecs

Call Features

- Models: 1E1/T1 (30/23 channels); 2E1/T1, 4E1/T1
- Voice Processing – G.711, G.729A, G.723.1, GSM, iLBC; echo cancellation; G.168 with Tail length 16/32/64 ms; dynamic jitter buffer; VAD and CNG
- Call Control – called/calling party number translation; second-stage dialing; voice detection; auto dialing with DTMF; ringback tone generation and detection; voice announcement
- Signaling and media encryption using TLS/SRTP
- Fax Relay – T.30 transparent mode, T.38 fax relay
- Call Handling – configurable dialing plan, up to 500 routing rules
- Configuration Interface – Web Utility
- Remote Management – HTTP, HTTPS

Signaling

- PSTN – ISDN PRI standard: ANSI, NI-2, DMS, 5ESS
- SIP – RFC3261, RFC2976, RFC3515, RFC3581
- DTMF – tone detection generation and detection; DTMF relay: RFC2833, INFO (SIP), audio

TGWxE1-3G is an ISDN/PRI VoIP Gateway



Features

- Flexible digit translation
- Up to 500 routing rules
- Auto dialing
- DTMF detection and progress tone detection
- T.30 and T.38

Interoperabilities

The Tadiran TGWxE1-3G supports user-side ISDN PRI connections to Aeonix UC&C switches offered by Tadiran and it also supports network-side ISDN PRI connections.

Certification

- FCC Part 15, CE, SGS-USTC

Management

Tadiran TGWxE1-3G supports both Web and text-based configuration methods, and it also supports firmware upgrade, log file download, statistics collection and event alarm.

Hardware

- Ethernet – RJ-45, 4X10/100/1000 Base-T self-adaptive
- Trunking Interface – RJ-45
- System Memory – 256 MB
- System Flash – 32 MB
- Processor – TI AM3352
- DSP – TI C5509
- Power Supply
 - Single/Dual 110-240 V AC
 - Dual 48 V DC
- Power Consumption – 60 Watt (max.)
- Dimensions (H x W x D) – 44 x 440 x 300 mm
1U form factor
- Weight – net: 3 kg gross (include package): 5 kg

Environmental Requirements

- Operational – 0 to 40 C
- Storage Temperature – -10% to 60 C
- Storage Humidity – 10% to 95% (non condensing)

