

# KTAE1 VoIP Trunk Gateway



KTAE1 performs IP to PSTN

interconnection function by packetizing and depacketizing voice calls between IP and PSTN. It is widely used for PSTN termination for VoIP calls, or providing PBX access to IP networks.

KTAE1 is specifically designed for service providers and large enterprises to offer VoIP services. With 1U form factor, a KTAE1 is equipped with a main control module, two line module slots (for one or two 4-port T1/E1 modules), and two power supply slots (for one or two AC or DC power supplies).

High Performance Voice processing capability is the most important requirement and measurement for all trunking gateways. KTAE1 configured with one to four T1/E1 interfaces can maximally process 120 simultaneous VoIP calls. KTAE1 embeds powerful DSP technology which possesses 4800 MIPS processing power, for full load voice processing to support CODEC (G.711, G.729A, G.723), echo cancellation (G.168), DTMF relay (RFC2833), and fax relay (T.30, T.38) etc.

Flexible configuration of one to four T1/E1

Toll voice quality

Guarantee 120 DS0 voice processing with any CODEC

Ideal PSTN termination for IP Phones, IP PBX and PBX access.

Embedded with RTP voice proxy, digit translation, auto dial and RADIUS billing interface

Advanced technology including SIP protocol, frequency domain echo cancellation and iLBC CODEC

## Rich Features

KTAE1 supports all kinds of features to satisfy various application requirements. Features include: Calling/Called Party Number Translation, Routing Selection, RADIUS Billing Interface, Second Stage Dialing and Ring-back Tone, DTMF Auto Dial, Tone Detection, RTP voice Proxy (for NAT Traversal), T.38 Fax Relay. KTAE1 supports ISDN PRI and SIP protocols and it is the ideal PSTN termination trunking gateway for IP phones, PC phones and PBX bridge to VoIP services.

## Simple to Operate and Maintain

Like other KONCEPT VoIP products, KTAE1 has the Web GUI and text onfiguration interfaces.

## Investment Protection

Compared to other VoIP products on the market, KTAE1 embeds newest VoIP technology and standards, and is an open platform to support many new telecommunication applications to come.

# KTAE1

## Specifications

Configuration	1E1 (30 Channels), 2E1 (60 Channels), 4E1 (120 Channels)
Voice Processing	G.711, G.729A, G.723.1, GSM, iLBC Echo Cancellation: G.168, Tail Length:16/32/64/128 ms Dynamic Jitter Buffering VAD and CNG
Call Control	Called/Calling Party Number Translation Second Stage Dialing Voice Detection Auto Dialing with DTMF Ringback Tone
Voice Proxy	RTP Voice Proxy Function (for NAT/Firewall Traversal)
Fax Relay	T.30 Transparent Mode, T.38 Fax Relay
Billing	RADIUS Interface
Configuration Interface	User Web Interface, Text Interface

PSTN	ISDN PRI Standard: ANSI NI-2 DMS 5ESS
IP	SIP RFC3261
DTMF	DTMF Tone Detection DTMF Relay: RFC2833, INFO (SIP)

Ethernet	RJ-45, 10/100 Base-T
Trunking Interface	RJ-45
System Memory	128MB
System Flash	16MB
Processor	Motorola PowerPC 8250
DSP	TI C5509
Power Supply	110 to 240 VAC, 50 to 60 Hz, 1 Amp (Max) -48 VDC, 1 Amp (Max)
Power Consumption	70 W (Max)
Size (H x W x D)	4.4 x 44 x 44 cm 1U formfactor
Net Weight	7 kg
Packing Weight	9 kg

Storage Environmental	0 to 40°C, Non-Condensing Humidity 10% to 95%
Operating Environmental	-10 to 60°C