



### Key Features

- + Route PSTN Lines to Your IP Network for VoIP and IP PBX Usage
- + Interconnect Existing Phone Systems in Remote Locations Across the Internet
- + Expand Existing Phone Systems with IP-Based Phones and Hardware
- + Interoperates with Any Standard SIP Device

### Network Features

- + SIP (RFC 3261) Compliant
- + 10/100Base-TX Connection

### Telephony Features Supported

- + Caller ID
- + Call Waiting / Call Forwarding
- + Caller ID on Call Waiting
- + Call Transfer (on busy, no answer, all)
- + Special Purpose Calling Codes
- + Speed Dial
- + Redial
- + Routing (based on called number or other criteria)
- + CDR for Accounting
- + STUN Client for NAT Transversal
- + Flexible Interface for Analog Phones, Fax, Traditional PBX with Analog Trunks
- + Fax Tone Detection and Codec Bypass (T.30) and Fax Relay (T.38) function
- + G.711, G.723.1, and G.729A Voice Codec
- + G.168 Echo Cancellation
- + DTMF Transportation: Transparent Mode, RFC 2833 Mode, SIP/INFO Mode

## Analog Trunk Gateway

The D-Link Analog Trunk Gateway (DIV-140) is an ideal business solution that integrates standard phones with an IP network, producing a fully functional, cost-effective communications network.

Voice over IP (VoIP) is a dominant form of communication in the workplace. Internet telephone calls can originate from traditional phones via analog trunk gateways by either PCs using software or embedded devices such as IP Phones. Internet telephony integrates a variety of services provided by the current Internet and Public Switched Telephone Network (PSTN) infrastructure.

The DIV-140 Analog Trunk Gateway is the bridge between local PSTN phone lines and an Ethernet IP network. The result is a combination of phone and fax services that assimilate with your data network. The DIV-140 features four RJ-11 analog FXO ports for connecting to the local PSTN phone lines and one 10/100Base-TX connector for a local Ethernet network.

The DIV-140 Analog Trunk Gateway is an ideal solution for converging your business phone requirements to next generation communication services and can be used in a variety of possible solutions.

#### Solution A:

A solution for routing current phone systems over the Internet. This can be used for connecting phone systems for a company with many branches, or as toll-bypass for phone systems located in most Internet accessible locations in the world.

#### Solution B:

A solution for expanding your current phone system. It can be used to connect cost-effective Ethernet IP telephony devices, like an IP Phone, to most standard phone systems.

#### Solution C:

A solution for adding new technology to your current phone system. It can be the gateway for Wi-Fi Session Initiation Protocol (SIP) IP Phones or Hybrid Phones.

#### Solution D:

A solution for routing current phone systems to Internet Telephony Service Providers (ITSP), which give you low per minute or flat-rate phone services.

#### Solution E:

A solution to provide your SIP IP PBX access to local PSTN phone lines. It allows IP telephony products access to inbound 800 phone numbers, outbound 911 services, and back-up routes to ITSP.

The DIV-140 includes a Layer 3 IP TOS QoS engine, which prioritizes voice data packets to enable smoother voice quality. In addition, it also offers 802.1Q compliance for Layer 2 VLAN segmentation. Traffic management mechanisms improve call quality and reliability and can be tuned to fit your data network. The DIV-140 is hardened against network attacks with its built-in packet inspection engine. Access to its phone services is securely handled by SIP standard challenge-response authentication.

Lightweight and compact in design, the DIV-140 Analog Trunk Gateway is designed for any size business. With voice detection, echo cancellers, and a comfort noise generator (CNG), the DIV-140 delivers a high quality, cost-effective solution to any business IP network.



## Analog Trunk Gateway

### Technical Specifications

#### Protocol

- + SIP (RFC3261) Compliant
- + DTMF Dialing/Detection
- + Fixed IP and DHCP
- + PSTN Polarity Reversal Detection

#### Network Features

- + LAN Port: 10/100Base-T Ethernet
- + PSTN Port: Four Analog FXO Ports
- + COM Port: RJ-45 Console Port
- + Supports Static IP and DHCP
- + QoS by ToS (Type of Service)
- + SNTP (Simple Network Time Protocol)

#### Telephone Features

- + Peer-to-Peer Mode
- + Support Auto-Attendant (2nd Dial Tone/Voice Greeting)
- + Line Hunting
- + E.164 (Telephone Number Plan)
- + DTMF Dialing
- + DTMF Detection/Generation
- + VAD (Voice Activity Detection)
- + CNG (Comfort Noise Generator)
- + Dynamic Jitter Buffer
- + Bad Frame Interpolation
- + Completed Voice Band Signaling Support
- + Receive Caller ID From PSTN
- + Provide Inbound and Outbound DTMF Generation/Detection between LAN and PSTN Interface
- + Gain/Attenuation Settings
- + G.168 Echo Cancellation

#### Voice Codec

- + G.711 (A-law)
- + G.711 (Mu-law)
- + G.723.1
- + G.729A
- + G.168 Echo Cancellation



## Analog Trunk Gateway

### Device Management

- + Secure Web-GUI Configuration
- + FTP Software Upgrade
- + Remote Configuration/Reset via TELNET
- + RJ-45 Console Port

### LEDs

- + Indicator for PSTN Port Status
- + Power ON/OFF
- + Link/ACT Status
- + READY Work Status

### Power

5V, 4A

### Temperature

- + Operating: 32° F to 122° F
- + Storage: -13° F to 131° F

### Humidity

5% to 95% (Non-condensing)

### Certifications

- + CE Class A
- + FCC Class A
- + UL

### Warranty

1-Year Limited<sup>1</sup>

<sup>1</sup> 1-Year Limited Warranty available only in the USA and Canada.