# *Digitan 56K bps ISA Modem*  DS560-452

*Digitan DS-560-452 Modem is a multi-functional high speed modem that provides advanced fax, data and telephony capabilities on the PC*

The DS560-452 is designed with the latest technology in analog modem and DSP to offer 56Kbps speed and multiple features at a cost effective price. It is based upon a highly integrated design utilizing Lucent Technologies controller-less chip set. Its low component count and host based controller implementation makes it inherently cost effective. However, it does not overburden the host CPU, as most of the computation intensive functions are performed by the high powered on-board DSP.

In addition, it is easy to install, support, upgrade and add features to the DS560-452, which is done by simply updating the driver software. The DS560-452 is an excellent solution for high speed internet connection and adding powerful telephony features to a PC.

## Technical Specifications

**PROTOCOL COMPATIBILITY**
   **Data Mode:** K56Flex, ITU-T Ext. V.34, V.32bis, V.32, V.22bis,
               V.22, V.23, V.21; and V.32terbo, Bell212A, Bell 103.
   **Fax Mode:** ITU-T,V.17, V.29, V.27ter, V.21(Ch2),EIA/TIA578-1.

**DTE DATA RATE**
   115200, 57600, 38400, 19200, 14400, 12000, 9600, 7200, 4800,
   2400, 1200, and 300 bps.

**LINE SIGNALING SPEED**
   56000-32000 (56K mode), 33600, 31200, 28800, 26400, 24000,
   21600, 19200, 16800, 14400, 12000, 9600, 7200, 4800, 2400,
   1200, and 300 bps.

**DATA COMPRESSION**
   MNP Service Class 5, ITU-T V.42bis (BTLZ)

**ERROR CORRECTION**
   MNP Service Class 5, ITU-T V.42bis (BTLZ)

**TRANSMIT LEVEL**
   -10 dBm +/- 1 dB

**RECEIVE SENSITIVITY**
   -43 dBm

**DIAGNOSTIC CAPABILITY**
   Analog loopback test, Digital loopback test, Remote digital
   loopback test, Power-On self-test.

**VOICE MODE**
   Tone detection/generation, Call discrimination, ADPCM
   Compression/decompression, IS-101 AT+V command set.

**FULL DUPLEX SPEAKERPHONE**
   Adaptive acoustic and line echo cancellation, Position independent
   operation, Volume control.

**DIGITAL SIMULTANEOUS VOICE/DATA**
   Host based DSVD, ITU-T V.70 and Intel DSVD 1.2 TrueSpeech1
   (8.5 K bps) compatible.

**VIDEO READY SUPPORT**
   Compatible with H.324 compliant devices, V.8, V.25ter, supports
   V.80 synchronous access mode (SAM).

**BUS INTERFACE**
   ISA bus

**PHYSICAL DIMENSIONS**
   0.68" x 4.2" x 6.245"

## Product Features

- Allows 56,000 bps speed for internet and BBS access supporting the K56Flex standard.
- Data transmission speed of 33,600 bps with throughput of up to 115,200 bps.
- Send and receive faxes at 14,400 bps from your computer with Group III compatibility.
- Hands off voice communication with full duplex speaker-phone operation.
- Interactive transmission of voice and data over single telephone line with Radish[YM] VoiceView[TM] protocol.
- Simultaneous transmission of voice and data over single telephone line with DSVD protocol.
- Telephone Answering Machine (TAM) and voice-mailing capability.
- Synchronous Access Mode (SAM) to support H.324 compliant devices.
- Caller ID support.
- Auto speed selection with correct protocol and speed matching.
- AT Command set compatible - Hayes[TN] and EIA/TIA 602.
- Call progress monitoring provides constant information on the communication status.
- Auto Dial and Auto Answer.
- Tone or Pulse dialing.
- Software speaker volume control.
- Nonvolatile RAM for storing up to 2 configuration profiles and 4 telephone numbers.

*Digitan Systems*