

**DIGITAL VOICE SYSTEMS, INC.**

The Speech Compression Specialists

**VC-55™-PR**

## Single-Channel Vocoder Board



Digital Voice Systems, Inc.'s (DVSI) VC-55™-PR Voice Codec Board is a full-duplex real-time voice processing board incorporating DVSI's latest advancements in voice compression technology. The VC-55™-PR is ideally suited for a variety of applications including: digital mobile radio communication systems, wireless telephony, voice monitoring / recording / storage systems as well as, testing and evaluation of DVSI vocoder performance. The compact board design is engineered for seamless integration into new or existing OEM systems.

The VC-55™-PR hardware incorporates DVSI's patented voice compression vocoder software geared toward the next generation of APCO Project 25 (P25) digital mobile radio communication systems. Providing the best in voice compression performance, the VC-55™-PR integrates an enhanced dual rate (7200/3600 bps) APCO P25 implementation. The VC-55™-PR includes a number of additional features, such as: Noise Suppression, Silence Frame Generation and support for DTMF tones.

The VC-55™-PR is equipped with separate connectors for audio I/O, power and an RS-232 serial interface capable of one channel of compressed voice data. A real-time, full-duplex communication link between two VC-55™-PR boards can be established by connecting a cable between each board's asynchronous RS-232 serial interface.

With off-the-shelf availability, the VC-55™-PR provides a cost-effective voice compression vehicle that reduces the time and up front engineering expenses associated with new product development.

For additional information or to learn more about DVSI and its products, visit us on-line at [www.dvsinc.com](http://www.dvsinc.com).

- The VC-55™-PR Voice Codec Board implements DVSI's enhanced dual rate vocoder (4400 bps and 2450 bps) to provide excellent voice quality and APCO Project 25 compatibility.
- Low power requirements and a compact design make the VC-55-PR™ ideal as an integral part in an OEM system or as a stand-alone voice processing board.
- The VC-55™-PR provides an RS-232 serial connection for real-time full duplex communication between VC-55™-PR boards or other serial devices.
- Built-in FEC delivers robust performance over channels degraded by bit errors and/or background noise.
- An on board 16-bit linear stereo codec provides high performance audio through a handset or stereo jack I/O.
- Advanced capabilities include: Noise Suppression; Silence Frame Generation; DTMF tone detection.
- A USB port provides connection to a PC for board configuration and the ability to upgrade system software.