

The Tempest DVG is built entirely on Franklin's designed, developed and manufactured hardware, firmware and software technology. Inside a host Pentium PC, the minimal configuration is a three board card set consisting of:

- Franklin Digital Signal Processor (DSP) board
- Franklin Telephone line interface board (8 Port FXO, FXS, T1 or E1)
- Industry standard LAN interface

The Franklin DSP contains the vocoder technology that compresses the digital voice or fax information coming from the Franklin telephone line interface. The Franklin DSP board utilizes one 40 Mips AD2181 DSP per channel for enhanced quality and greater throughput. The Franklin DSP board is a full length PCI board with MVIP connectivity. Each Franklin DSP board contains up to 12 DSPs for up to 12 simultaneous sessions. Two DSP boards would be installed in a 24 port system. The DSP board supports G.723.1 voice, H.323, G.711 FAX and T.30 FAX with automatic recognition and control.

The Franklin telephone line interface boards are designed to work with both domestic and foreign connections.

Every Franklin line interface board is an ISA bus card with MVIP connectivity.

- *FXS* for analog trunk connection to a PBX or direct connection to analog phone or fax sets. Up to three (3) FXS boards per system for a total of 24 channels. Each FXS board has four (4) external RJ14 connectors. All FXS Tempest DVGs are equipped with a ringer power supply.
- *FXO* for analog trunk connection to a central office or PBX extension. Up to three (3) FXO boards per system for a total of 24 channels. Each FXO board has four (4) external RJ14 connectors.
- *T1* for channelized digital trunk connection to a central office or PBX. The Franklin T1 board can be ordered with a built in CSU or DSX interface. The Franklin T1 board has a built in digital cross-connect matrix and can be utilized in drop and insert configurations.

- *E1* for European channelized digital trunk connection to a central office or PBX.

The industry standard 10/100BaseT LAN interface is incorporated for ease of connectivity, general LAN compatibility and high speed throughput.

The Tempest DVG is a self contained, Pentium PC based, rack mount chassis with telco and Ethernet input/output controlled by Franklin's system software and firmware. Due to the efficient MVIP above bus connectivity of the DVG components, only 32Mb of RAM and a 166Mhz Pentium CPU host are required. The system contains a CD-ROM drive to load all Linux system software and maintenance releases onto an industry standard hard disk drive. The Tempest can be ordered in a variety of hardware configurations to meet various reliability goals. From a simple AC powered solution with limited redundancy to a ~48 volt DC powered solution with multiple processors, RAID and redundant telephone line interfaces.



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