

— WRITING SAMPLE —

(trades reporting - corporate communications)

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GLENAYRE MINI-TAS USES VME BUS FROM DY-4 SYSTEMS

Glenayre Electronics is pleased to be using a VME bus from DY-4 Systems Inc. in its newly developed GL3900-S "Mini Message Manager," a compact terminal that provides fully automated telephone answering service, or "TAS." TAS clients are people who can't always answer their phones—people on the move, on the road, and small companies that can't yet support a full-time receptionist. Calls for these clients are automatically connected to the TAS operators, who cordially take messages and, in the case of the advanced GL3900-S, relay other important information and provide subsidiary services.

As an interface between the Public Switched Telephone Network and the operators' video-display terminals, the GL3900-S handles dozens of calls at a time through an Automatic Call Distributor. Callers' messages are taken by the operators and are stored on a disk-based database for subsequent delivery to clients. When a call comes in, the CPU identifies the specific client record from the digits dialed, retrieves the record from hard disk memory, and displays it for the operator—all before the caller is connected. Pulse Code Modulation (PCM) highways are used to efficiently switch digitized audio between up to four operator positions and up to 22 telephone trunks, with the capacity to manage, automatically, the traffic generated by up to 450 clients.

DY-4 Systems' high-speed VME bus provides the enormous throughput needed for this real-time TAS (max. 40 megabytes/sec). In addition, the CPU card supplied by DY-4 Systems has the high performance design needed to maintain this high throughput—a powerful Motorola 68000 16/32-bit processor with a Memory Management Unit along with one megabyte of RAM, which holds the applications software. The VME bus and the separate two-megabyte RAM card are used almost entirely for the transfer of client-record and message data between the hard disks and the serial I/O ports, while the CPU actually fetches most of the program code from its own RAM. (An additional VME card engineered by Glenayre—the PCM switch—is a "slave" interface with the VME bus, providing the address, data, and control-signal buffering between the VME bus and the trunk cards.)

Another advantage of DY-4 Systems' VME bus is that all connectors are off the backplane, allowing easy access and easy RFI shielding for FCC approval. The versatility of DY-4 Systems' VME bus is paramount to the design of the GL3900-S.

Glenayre Electronics is an international corporation specializing in the design and manufacture of mobile radiotelephone, radio paging, and automated TAS systems.