

Thruput Limited replicate DG disc hardware, enabling existing software and processors to continue in operation.

- *Exact replication of the original disc drive - timing, performance and electrical interface.*
- *Solid state technology, with programme storage and transport via USB media.*
- *Enables tape based programme instructions to be re-lived and permanently stored without any degradation.*



Thruput Disc Drive

Thruput apply state of the art FPGA technology to exactly replicate the internal circuitry and firmware of the disc drive.

To accommodate the evolution of the original disc drives over their production life, the Thruput system includes a user configuration service to provide seamless operation with all DG drive controllers in single through to quadruple disc configuration.

The Original DG system

As originally supplied, the Data General 6000 series cartridge disc subsystem included self-contained, medium density, 200 TPI (Tracks Per Inch) mass storage units that provided direct access moving head disc memory for all of the DG NOVA, ECLIPSE and ALPHA series computers.

This cartridge disc subsystem was gradually enhanced over its production life and typically provided 10 to 40 Megabytes of online direct access disc storage depending on the model, and the number of individual drives.

In operational use, the host systems typically contained between one and four disc drives in either single or dual processor configurations.

- Each drive contained one fixed disc and one removable cartridge disc, and had a total capacity of five million 16-bit words (5Mbytes).
- Data was transferred between the disc and the host computer memory in 256 word blocks at a rate of 6.4×10^{-6} seconds per word.

DG Interface

The Thruput Disc Drive interfaces directly to the original DG Controller. No changes are needed to the controller, the host processor or the application programmes. The disc drive is compatible with both single and dual processor environments.

Capacity and Timing

The Thruput Solid state disc drive replicates exactly the interfaces, performance and timings of the DG original.

