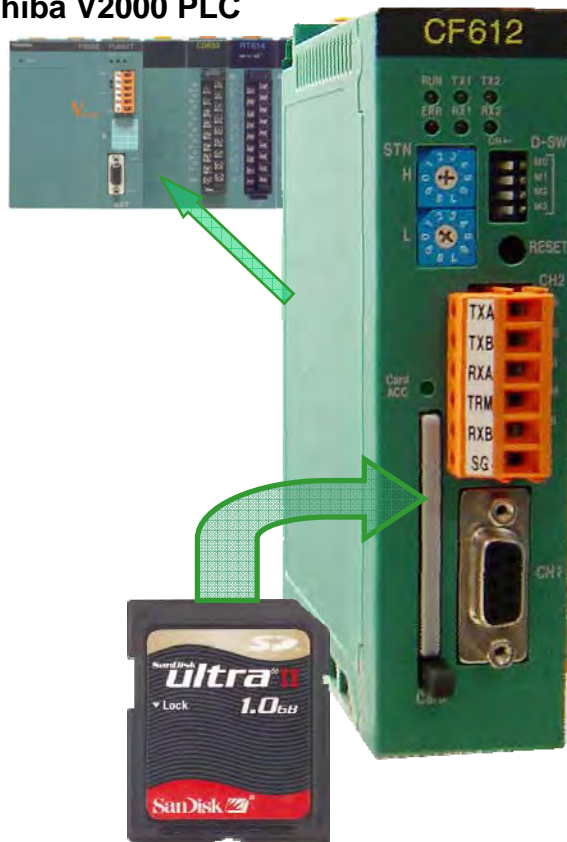


### Communications Interface Module

Toshiba V2000 PLC



Memory Card

The GCF612 is a multi function serial communications module for the V2000 Series S2T PLC. It communicates directly with the S2T CPU via the station bus. The GCF612 has three modes of operation:

- **Computer Link Mode**
- **Free ASCII Mode**
- **Data Storage Mode**

All three modes can be used simultaneously.

**Computer Link Mode:** This mode allows multiple V2000 S2T CPUs to be connected to higher level controller (master computer, MMI/OIS, or the T-PDS programming software. Up to 32 stations can be connected without a repeater.

**Free ASCII Mode:** This mode allows the GCF612 to act as a master device. In this mode the GCF612 can send Read & Write commands to connected devices that have a simple ASCII communications protocol. These devices include ASDs (adjustable speed drives), weigh scales, motor protection relays, etc.

**Data Storage Mode:** This mode allows the GCF612 to store large quantities of easily accessed data outside of the CPU and the GCF612. The GCF612 has a slot for a standard, off-the shelf, commercial compact flash card (above). Currently GCF612 can accept flash memory cards in the capacity of 32 Mb to 1 Gb. Approximately 5 million PLC registers can be saved to each 32 Mb on the compact flash card. Data, with a date and time stamp, can be saved to a CSV (comma separated value) in the compact flash card. Most spreadsheet and database programs can read CSV files. Once this data is imported in a program such as MS Excel all types of data manipulation, graphing, statistical analysis, etc. is possible. This data can be used for process improvement or proof of system status during litigation.

# GCF612 Module Specifications

## Functional Specifications

| Item           |   | Specification   |
|----------------|---|---|
| Compatible CPU |   | S2T Ver. 1.3 or higher  |
| I/O Type       |   | Opt Station bus module)   |
| Indicators     |   | Run/Error status, Card status, TX1, TX2, RX1, RX2 status.           |
| Data Storage   | Medium<br>Max Capacity<br>Type<br>File Format | Compact Flash<br>1 Gb<br>FAT file system (FAT16)<br>CSV/Binary file |
| RAS            |   | WDT, Self-Diagnosis, Trans Error                                    |

## Communications Specifications

| Item                     |   | CH 1  | CH 2                                     |
|--------------------------|---|---|--|
| Interface                |   | RS232   | RS485                                    |
| Cable Connection         |   | 9 pin D-Sub   | 6 pin Terminal Strip                     |
| Transmission Distance    |   | Up to 15 m  | Up to 1 Km                               |
| Synchronizing            |   | Asynchronous  | Asynchronous                             |
| Transmission Mode        |   | Full Duplex   | Full Duplex 4 wire<br>Half Duplex 2 wire |
| Message Length           |   | Up to 1024 K bytes  | Up to 1024 K bytes                       |
| Transmission Control     |   | RS/CS Control   | None                                     |
| Configuration            |   | 1 Unit  | 21 Units Max.                            |
| Transmission Speed (bps) |   | 300, 600, 1200, 2400, 4800, 9600, 14,400, 19,200, 28,800, 38,400, 57,600, 115,200 |  |
| Frame Format             | Start Bit<br>Data Bit<br>Parity Bit<br>Stop Bit | 1 (fixed)<br>7/8 bits<br>Even/odd/none<br>1 or 2 bits                             |  |
| Connection Type          |   | 1:1   | 1:1, 1:n (n=1 to 32)                     |
| Code Pattern             |   | NRZ   |  |
| Protocol                 |   | Toshiba Computer Link & Free ASCII  |  |