

### Profibus Communications Modules

GPF611\*\*S



GPF612\*\*S



Toshiba V2000 PLC



**Profibus** is an international fieldbus for plant wide use across all sectors of the manufacturing and process industries. It is certified by International Standards IEC-61158. Toshiba offers two Profibus modules for the V2000 Series PLCs, the GPF611\*\*S and the GPF612\*\*S. Both of these modules operate on the Profibus DP network.

The GPF611\*\*S is a Profibus DP **master** module. It allows the V2000 CPUs (S2/S2T/S2E) to read and write data to slave devices such as; adjustable speed drives, manifold valve controllers, operator interface stations, flow meters, control valves, remote field I/O, other PLCs, etc. The GPF611\*\*S module can communicate with any Profibus DP slave.

The GPF612\*\*S is a Profibus DP **slave** module. Any Profibus master (V2000 with GPF611\*\*S module, other manufacture's PLC, or higher level Profibus master) can read and write to a V2000 (S2E/S2T/S2E) controller that has a GPF612\*\*S module in its rack.

# Specifications

## System

Item	Description
Transmission Path Configuration	Bus
Number of Transmission Stations	122 (maximum) (32 in each segment, expandable with repeater (up to 3))
Transmission Cable	RS-485 Shielded twisted pair cable
Transmission Speed	9.6 K to 12 Mbps
Transmission Code	Manchester
Modulation Method	Baseband
Access Method	Token passing
Physical Layer	RS-485, with insulation by photo coupler
Communication Service	(1) Cyclic transmission

## Module

Item	Description	
	PF611	PF612
Connected Device	Integrated controller model 2000 S2T/S2E	
Engineering Tool	PROSEC T-Series engineering tool (T-PDS)	
Connection Bus	G2 I/O bus	
Number of Connectable Modules	Up to 8 (total of PF611 and PF612)	
Services	Process data (cyclic data) I/O Input 512 bytes Output 512 bytes	Process data (cyclic data) I/O Input 244 bytes Output 244 bytes
Access Method from Controller	Direct I/O with READ / WRITE Instruction	
Parameter Setup Method	Custom configurator	Setup switch or User program on controller
Current Consumption	1.2 A	1.0 A
Operating Ambient Temperature	0 to 45°C Please perform compulsive air-cooling in the location where the ambient temperature exceeds 45°C.	
External Dimensions	G2 I/O, occupies 1 slot	
Conforming Standard	EN50170 (DPV0)	
	Profibus Class 1 Master	Profibus-DP Slave
RAS Function	<ul style="list-style-type: none"> <li>• Module status</li> <li>• Healthy counter</li> <li>• PROFIBUS-DP status</li> </ul>	