

Features	GE-800-PV-PCI	GTS-800-PV-PCI
Sampling cycle	400us	250us
Servo cycle	400us	125us
Pulse output frequency	1MHz	1MHz
Analog output	Range: -10V-+10V, 16-bit resolution.	Range: -10V-+10V, 16-bit resolution.
Analog input	8 channel of analog input, 12-bit resolution, range: -10~+10V.	8 channel of analog input, 12-bit resolution/16-bit resolution, range: -12.5~+12.5V.
Digital I/O	16 channel of uncommitted digital input/output.	16 channel of uncommitted digital input/output.
Encoder channel	8 channels of quadrature incremental encoder. Max counting frequency: 8MHz.	8 channels of quadrature incremental encoder. Max counting frequency: 8MHz.
Auxiliary encoder	N/A	1 channel of quadrature incremental encoder. Max counting frequency: 8MHz
Position latch	Latch by home/index signal.	Latch by home/index/probe signal.
Independent axis motion	Support symmetrical S-curve, T-curve acceleration and deceleration.	Support symmetrical and unsymmetrical S-curve, T-curve acceleration and deceleration, Easy parameters setting for S-curve.
JOG	Support	Support
PT	N/A	Support
PVT	N/A	Support
E-Gear	Be able to follow axis motion, single channel encoder. Cannot realize accurate tracing for accumulation deviation.	Be able to follow single axis and multi-axis composite motion, multi-channel encoder compound motion. Employ proportion description mode to realize accurate tracing.
E-Cam	N/A	Support. Be able to follow single axis and multi-axis composite motion, multi-channel encoder compound motion. Synchronization condition can be programed for various times and



		various positions to realize complex synchronization. Employ proportion description mode to realize accurate tracing.
Multi-axes motion	N/A	Line, circular, helix interpolation.
On-board motion logic management	N/A	Supports 32 motion logic management simultaneously. Real-time parallel processing mechanism is implemented for motion control. Simplify the host logic management, and make the host focus on other tasks.
Configurable hardware resources by programming	N/A	Users can configure the hardware signals and channels flexibly according to their own system requirements.
Motion status judgment	Provide planned position flag, and actual position is judged by users. Programming is more complicated.	Provide actual position and planned position arrived flags, error band parameters can be programmed in using actual position arrived flag by users. Simplify user programming and increase the reliability of the system.
Gantry control	Customization	Support. Implemented by mapping.
Motion compensation	N/A	Error compensation with motion composition and superimposition, such as screw pitch compensation, backlash compensation.
Pulse/level on position	Support	Support
Motion synthesis	N/A	Support
DEMO	Provide DEMO under Windows 2000/XP/NT/WinCE.	Provide DEMO under Windows 2000/XP/NT/WinCE.
Online diagnose, online update	N/A	Support TUNING, diagnosis functions and online update.
Other functions	ISA/PCI bus	Support PCI bus communication and COM communication, Support online debugging with COM.
Extension module	N/A	Support