

GTS-800-PV and GE-800-PV Functional Comparison

Advantages

As a new generation of Googol's hardware platform, GTS series motion controllers have stronger capability of computation and data processing. Based on modularized platform architecture, GTS motion controllers have abundant and professional motion control and logic management functions, which provide flexible and simple integrating solutions for future expansion of user's application. Debugging platform and development monitoring function can be configured to GTS motion controllers for fast user development.

Features		GTS-800-PV	GE-800-PV
Sampling rate		250us	400us
Pulse output frequency		1MHZ	1MHZ
Encoder channel		8 channels of quadrature incremental encoder. Max. Counting frequency: 8MHz	8 channels of quadrature incremental encoder. Max. Counting frequency: 8MHz
Auxiliary encoder		1 channel of quadrature incremental encoder. Max. Counting frequency: 8MHz.	n/a
Motion planning	Independent axis motion	Support symmetrical and unsymmetrical S-curve, T-curve acceleration and deceleration	Support symmetrical S-curve, T-curve acceleration and deceleration
		Easy parameters setting for S-curve	
	JOG	Support	Support
	PT	Support	n/a
	E-gear	Support. Be able to follow single axis and multi-axis composite motion, multi-channel encoder compound motion	Support. Be able to follow axis motion, single channel encoder
		Employ proportion description mode to realize accurate tracing	Can not realize accurate tracing for accumulation deviation
	E-Cam	Support. Be able to follow single axis and multi-axis composite motion, multi-channel encoder compound motion	n/a
		Synchronization condition can be programmed for various time and various position to realize complex synchronization.	
Employ proportion description mode to realize accurate tracing			

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On-board motion logic management	Support 32 motion logic management simultaneously	n/a
	Realtime parallel processing mechanism is implemented for motion control. Simplify the host logic management, and make the host focus on other tasks	
Configure hardware resources by programming	Support. Users can config flexibly the hardware signals and channels according to their own system requirements	n/a
	Examples: dedicated IO can be configured to general purpose IO; an axis can be mapped to encoders of other channels or analog outputs	
Motion status judgment	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	Provide planned position flag, and actual position is judged by users. Programming is complicated
Gantry control	Support. Implemented by mapping	Customization
Motion compensation	Error compensation with motion composition and superimposition, such as : screw pitch compensation, backlash compensation	n/a
DEMO	Provide DEMO under WINDOWS 2000/XP/NT/WIN CE	Provide DEMO under WINDOWS 2000/XP/NT
	Support TUNING and diagnosis functions. Support online update	
Other functions	Support PCI bus communication and COM communication	n/a
	Support online debugging with COM	

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