

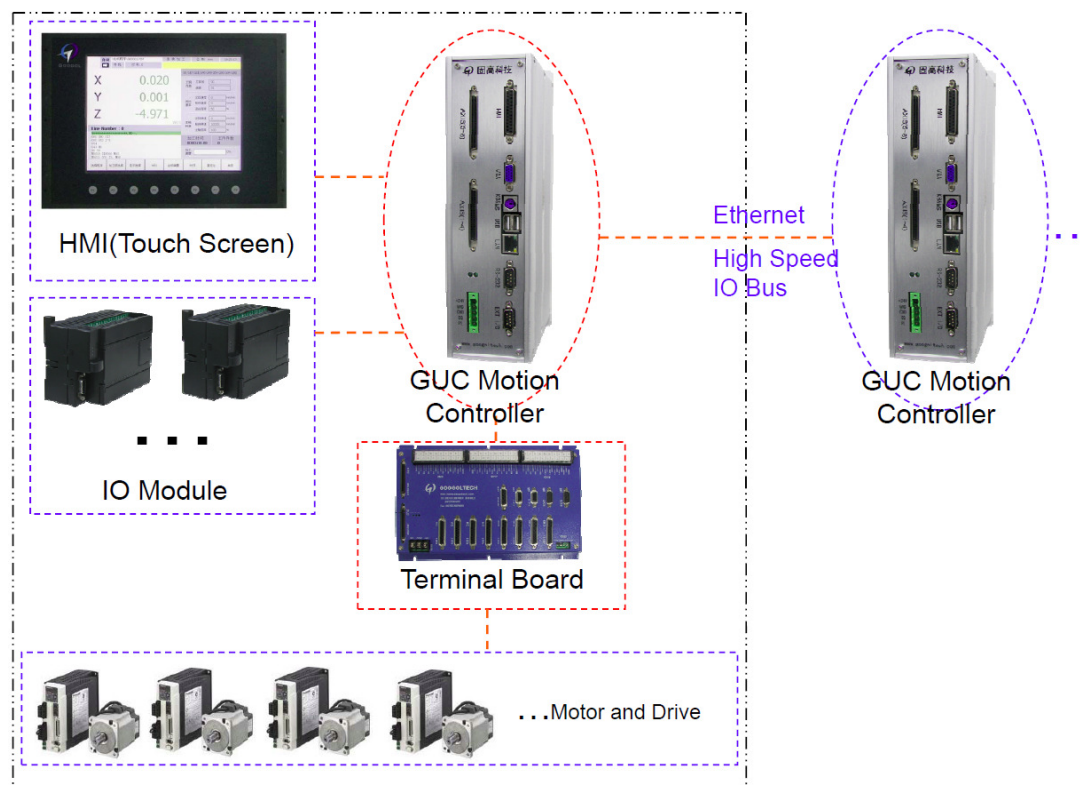
8 Axes Embedded Motion Controller

Overview

GUC-800-TPV/TPG series embedded controllers consist of both PC functions and motion control functions in one architecture. The motion control part is using Googol Technology's GTS- series controller architecture which is developed based on 32-bit "Blackfin" DSP + FPGA architecture. Its abundant control functions (see below specifications) make it widely applied in high speed, high precision point-to-point motion area and multi-axis (up to 8 axes) and synchronization motion areas. The PC part is designed based on the powerful embedded Intel chipset architecture that successfully integrates features as digital signal control, motion control and logic control into one board and thereby achieves much better control performance, greater reliability as well as high stability. The highly integrated embedded architecture also come with greater thermal reliability, significantly boosting the shelf life of the systems and affording greater value and mileage for the customers. In addition, the cost-effectiveness is also one of advantages of this GUC series controller. In addition, the IO extension is designed for machines that need plentiful input/output channels; human machine interface (HMI) and network IO extension modules are also provided as a one-stop solution to allow more flexible uses of the controllers.



System Configuration



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Applicable Fields

PCB Manufacturing; Packing Machines; Semiconductor Packaging Machines; AOI; Advanced Printing, Metallurgy Industry; Semiconductor Manufacturing; Bending Machines; Spectacles Frame Machines; Clothes Cutting Machines, etc.

Specifications





Embedded PC	<ul style="list-style-type: none">- CPU (Selectable): (M01) 600MHz; (M02) 1GHz- RAM: 256M- Display: VGA、HMI- Hard Drive (Selectable): DOM: 1G, 2G, 4G, Hardisk: 80G, 120G- USB2.0 X 2- Keyboard Mouse: PS/2- RS232 X 1- Network: RTL8139, 10M/100M <p>Operating System (Selectable)</p> <ul style="list-style-type: none">- DOS (Recommend 1G DOM)- WinCE (Recommend 1G DOM)- Windows XP (Recommend 4G DOM)
Motion Control	<p>Total 8 Axes motors control, for each axis:</p> <ul style="list-style-type: none">- Pulse Output, Max Frequency: 1MHz- Analog Output (ESV model only): -10V ~ +10V; Accuracy: 16 Bits- Encoder Feedback, Max Frequency: 8MHz- Home and Index Hardware Capture- Limit Sensors for Positive and Negative, Servo Alarm <p>Motion Control Functions:</p> <ul style="list-style-type: none">- Non-Symmetry T Curve, S-Curve Motion planning- JOG Mode- PT Motion Planning (Optional)- E-Gear- Follow Mode (E-CAM) (Optional)- Close Loop (TPV) and Open Loop- Digital Filter: PID + Velocity Feedforward + Acc Feedforward- Logic Control in Motion Controller(Optional)- Configurable IOs
I/O Function	<ul style="list-style-type: none">- 16 Digital Input / 16 Digital Output
Extension	<ul style="list-style-type: none">- Digital IO Module, AD/DA Module- Googol Technology's HMI
Working Environment	<ul style="list-style-type: none">- Temperature: 0~55℃- Humidity: 5%~90%
Power	<ul style="list-style-type: none">- +18V- +36V, Icc=3A MAX
Dimension (GUC)	<ul style="list-style-type: none">- 296mm×160mm×77mm
Dimension (Terminal Board)	<ul style="list-style-type: none">- 292mm×165mm×42mm

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Ordering Guide

Item	Description	Model No.	No./Length
Standard Package	GUC series Motion Controller	GUC-800-TPV-M01-L2	1
		GUC-800-TPG-M01-L2	
		GUC-800-TPV-M02-L2	
		GUC-800-TPG-M02-L2	
	Terminal Board	GT1-800-ACC2-G	1
Cable	ACC3-T1-068015	2/1.5m	

Optional Accessories

Cables	Controller to Terminal Board	ACC3-A1-062005	0.5m
		ACC3-A1-062030	3.0m
Cable for Motor Drive	Terminal Board to Drive (for Panasonic MINUS A Series)	ACC5-D01005	0.5m
		ACC5-D01010	1.0m
		ACC5-D01015	1.5m
HMI		15'HMI ACC6-PN5-T15-K8	
		15'HMI ACC6-PN5-T15-K16	
		12'HMI ACC6-PN5-T12-K61	
IO Module	Digital IO Module	ACC-S1616D	
	Analog IO Module	ACC-S0208A	
		ACC-S0408A	

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