GUC-L2 Series Embedded Motion Controller

Overview

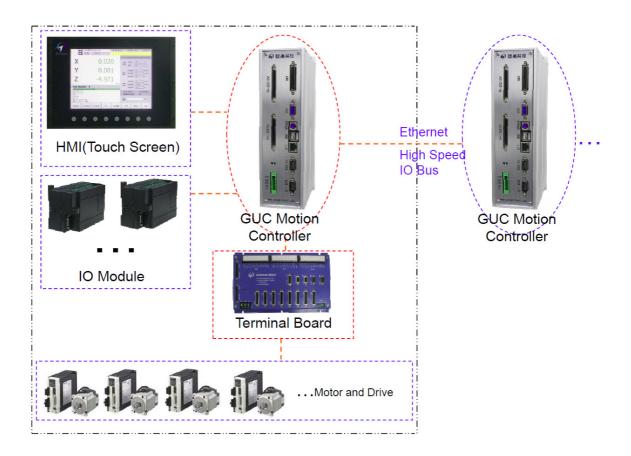
GUC-400-ESV/SG-M01(M02)-L2 are embedded controllers with both PC functions and motion control functions. The motion control part is using Googol Technology's GE series controller architecture. The advantages of this type of motion controller are the great performance in continuous trajectory control as well as the velocity look-ahead function. The PC part of the controller is designed based on industrial PC. OS like Dos, WinCE, WinXP could be the operation system on the embedded controller. The integration of industrial PC and motion controller has better performance in anti-interference ability, reliability and stability than the old architecture by using plugged-in motion controller with PC. Also the cost-effectiveness of the embedded controller is another reason to choose. To be more flexible to use this controller, the IO extension is designed for



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machine with plentiful input/output channels. In addition, Human Machine Interface (HMI) and network IO extension modules are also provided as a one-stop solution.

System Configuration



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Applicable Fields

PCB industry, Engraving machines, CNCs, Cutting equipments such as Plasma Cutting, Flame Cutting, Dispenser Machine, laser applications, etc,

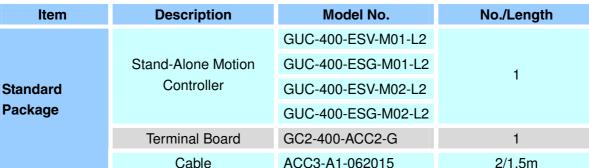
Specifications

Industrial PC	·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 Operating System(Selectable) ·DOS (Recommend 1G DOM) ·WinCE (Recommend 1G DOM) ·Windows XP (Recommend 4G DOM)			
Motion Control	 Total 4 Axes motors control, for each axis: Pulse Output, Max Frequency: 1MHZ Analog Output(ESV model only): -10V ~ +10V; Accuracy: 16 Bits Encoder Feedback Channel Home and Index Hardware Capture Limit Sensors for Positive and Negative, Servo Alarm Motion Control Functions: Linear Interpolation, Circular Interpolation Methods of Interpolation: Immediately Interpolation, Buffered Interpolation Velocity Look-Ahead Function: Small Segments Velocity Profile Optimization Open Loop, Close Loop(ESV model only) Local IO Management in Buffer, Delay Motion Function Cut Following Function(Optional) Spiral Interpolation(Optional) Backlash Compensation and Pitch Compensation(Optional) Gantry Control Function(Optional) 			
Extension	Digital IO Module, AD/DA ModuleGoogol Technology's HMI			
Working Environment	·Temperature: $0{\sim}55{^\circ}{^\circ}{^\circ}$ ·Humidity: $5\%{^\circ}90\%$			
Power	·+18V- +36V ,Icc=3A MAX			
Dimension (GUC)	·296mm×160mm×75mm			
Dimension (Terminal Board)	·262mm•150mm			



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Ordering Guide



Optional Accessories				
Cables	Controller to Terminal Board	ACC3-A1-062005	0.5m	
		ACC3-A1-062030	3.0m	
	Terminal Board to	ACC5-D01005	0.5m	
Cable for	Drive (suitable for	ACC5-D01010	1.0m	
Motor Drive	Panasonic MINUS A Series)	ACC5-D01015	1.5m	
НМІ	X 0.020 Y 0.001 Z 4.971 1		7	
	12'HMI	15'HMI	15'HMI	
	ACC6-PN5-T15-K8	ACC6-PN5-T15-K16	ACC6-PN5-T15-K61	
	Digital IO Module	ACC-S1616D		
IO Module	Analog IO Module	ACC-S0208A		
		ACC-S0408A		

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