

Serial Communication

■ Related Products of G series

MODEL No.	Equivalent Model	Description
GCCU-78F/25M	CCU-78F/25M	78pin D-SUB -> 25pin D-type (F) x8 Unit for GCOM-8C/4C
GCOM-1PD(FIT)GY	COM-1PD(FIT)GY	1 Ch RS-422/485 Communication module for F&IT
GCOM-2(FIT)GY	COM-2(FIT)GY	2 Ch RS-232C Communication module for F&IT
GRP-COM(FIT)H	RP-COM(FIT)H	RS-232C-Ethernet Converter
GRP-COM(FIT)H-AF	RP-COM(FIT)H-AF	RS-232C-Ethernet Media Converter, supports Power-over-Ethernet

Counter & Motion Controller

PCI & PCI Express

100-pin D-SUB	Motion Controller	Limit Switch Input	Synchronization control
	4		
Windows Driver			

High Speed 4 Axes Motion Controller

GSMC-4DL-PE
[SMC-4DL-PE]
GSMC-4DL-PCI
[SMC-4DL-PCI]

NEW

- Stepping and servo motors are easily controlled in familiar Windows environments
- Enable to control Consecutive Movement, Target Location, ORG return, etc. by Fixed Speed, Beeline Acceleration/Deceleration
- Encoders compatible with Differential output, TTL-level output, Open collector output are provided
- Pulse output of up to 9.8Mbps is supported
- Override of Speed or Target Location in the movement is provided
- 7 General-purpose input per axis, 3 General-purpose output



PCI & PCI Express

100-pin D-SUB	Motion Controller	Limit Switch Input	Synchronization control
	8		
Windows Driver			

High Speed 8 Axes Motion Controller

GSMC-8DL-PE
[SMC-8DL-PE]
GSMC-8DL-PCI
[SMC-8DL-PCI]

NEW

- Stepping and servo motors are easily controlled in familiar Windows environments
- Enable to control Consecutive Movement, Target Location, ORG return, etc. by Fixed Speed, Beeline Acceleration/Deceleration
- Encoders compatible with Differential output, TTL-level output, Open collector output are provided
- Pulse output of up to 9.8Mbps is supported
- Override of Speed or Target Location in the movement is provided
- 7 General-purpose input per axis, 3 General-purpose output



Realtime OS: INtime can support. Please contact us for further information.

Model	GSMC-4DL-PE	GSMC-8DL-PE	GSMC-4DL-PCI	GSMC-8DL-PCI
Number of Axes	4	8	4	8
Output Specifications	2-pulse (CW/CCW) or Common-pulse (Pulse/Direction) or 90°Phase Difference pulse (Lead/Lag)			
Signal type	Differential Line Driver output			
Pulse output	Pulse Rate: 0.3~9.8Mpps			
H-level Voltage	2.5V~5.25V			
L-level Voltage	0V~0.5V			
Signal Form	Single-phase (UP/DOWN/Z), Two-phase (A/B/Z)			
Output type	Differential, TTL-level, Open Collector			
Encoder input	5MHz [Differential output: Two-phase input, Four twice, duty 50%]; 3MHz [TTL-level output: Two-phase input, Four twice, duty 50%]; 1MHz [Open Collector output: Two-phase input, Four twice, duty 50%]			
Response Frequency	150Ω (SW cut-able)			
Resistance	3 signals/ch (ORG, +LIM, -LIM)			
Signals	Opto-isolated input (for sink current output)			
Limit Switch input	Signal type: Opto-isolated input (for sink current output)			
Input Resistance	4.7kΩ			
Resistance	7 signals/ch			
Signals	Opto-isolated input (for sink current output)			
General-purpose input	Signal type: Opto-isolated input (for sink current output)			
Resistance	4.7kΩ			
Resistance	3 signals/ch			
Signals	Open Collector (Current sinking type) (software selectable positive/negative logic)			
General-purpose output	Signal type: Open Collector (Current sinking type) (software selectable positive/negative logic)			
Rating	50VDC 100mA per channel, 300mA per axis			
Controller Chip	PCL6143 [NPM] or equivalent			
Interrupts	1			
I/O Address	Any 128-byte boundary			
Power Consumption (Max.)	3.3VDC 1500mA	3.3VDC 2100mA	5VDC 700mA	5VDC 1200mA
Bus / Dimensions (mm)	PCI Express Base Specification Rev. 1.0a x1 / 169.33(L)x110.18(H)		PCI (32bit, 33MHz, 5V or 3.3V ¹⁾ / 176.41(L)x106.68(H)	
Connector	HDRA-EC100LFDT+ [HONDA] Tsushin Kogyo) or equivalent	HDRA-E100W1LFD11EC-SL+ [HONDA Tsushin Kogyo) or equivalent	HDRA-EC100LFDT+ [HONDA Tsushin Kogyo) or equivalent	HDRA-E100W1LFD11EC-SL+ [HONDA Tsushin Kogyo) or equivalent
Software	ACX-PAC(W32)			
Options	Accessories: CCB-SMC2 ¹⁺²⁺³ , EPD-100A ²⁺³⁺⁴			
Cables / Connectors	PCB100PS, PCA100P			
Notes	*1: 100-pin 0.8mm pitch connector x1 → 37-pin D-SUBx4, 9-pin D-SUBx4 *3: Cable and accessory are needed for each connector.		*2: Requires use of optional cable PCB100PS *4: The screw-up terminal block is used, whose screw does not falling off.	
As shown on the side of products' images, RoHS Compliant is a CONTEC original marking for RoHS-compliant products.				

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MODEL No.	Equivalent Model	Description
GSMC-4DF-PCI	SMC-4DF-PCI	4 axis high-speed line driver output motion controller with high functionality for PCI
GSMC-8DF-PCI	SMC-8DF-PCI	8 axis high-speed line driver output motion controller with high functionality for PCI