

## **MicroSmart Pentra RS232 Communication Module**

- Features Up to 5 modules can be added to a MicroSmart Pentra Slim CPU
  - Allows MicroSmart Pentra Slim to communicate with up to 7 serial devices
  - Up to 3 modules can be added to a MicroSmart Pentra All-In-One CPU allowing communication with up to 5 serial devices.
  - Communicate with HMIs, variable frequency drives (VFD), barcode readers, RFID equipment, printers, additional CPUs, displays, PCs, web servers, etc.
  - Screw termination for easy wiring
  - The communication circuit is isolated from the internal circuit allowing for high noise resistance
  - Maximum baud rate: 38.4 kbps

### **Specifications**

### **General Specifications**

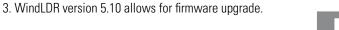
General Specifications			
Number of Channels	1		
Synchronization	Start-stop synchronization		
Electrical Characteristics	EIA RS232C compliant		
Maximum Delay in One Scan	Approx. 4 ms		
Operating Temperature	0 to 55°C		
Operating Humidity	10 to 95% RH (no condensation)		
Recommended Cable Specifications	Shielded multi-core cable	24AWG x 6	
	Dielectric strength	2000 V/min	
	Insulation resistance	100 MΩ/km	
Maximum Cable Length	3m		
Connector on Mother Board	MC1.5/10-G-3.81BK (Phoenix Contact) Applicable terminal block: FC4A-PMT10P (supplied)		
Isolation from Internal Circuit	Transformer isolated		
Maximum Number of Communication Modules	Slim type CPU module	5 max.	
	All-in-one 24-I/O type CPU module	3 max. (see note below)	
Internal Current Draw	85 mA (5V DC) 0 mA (24V DC)		
Weight	Approx. 100g		

Note: Use only the Slim MicroSmart Pentra CPU to connect to the expansion RS232C communication modules in combination with the function modules listed below (not applicable to the FC5A-C24R2 all-in-one module).

Function Module	Type No.
Analog I/O Module	FC4A-L03A1, FC4A-L03AP1, FC4A-J2A1, FC4A-J4CN1, FC4A-J8C1, FC4A-J8AT1, FC4A-K1A1, FC4A-K2C1
AS-Interface Master Module	FC4A-AS62M

#### Notes

- 1. WindLDR version 5.10 or higher is required.
- 2. Applicable FC5A CPU firmware is version 1.10 or higher.





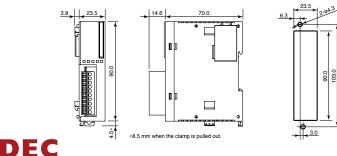


# Baud Rate (bps) 1200, 2400, 4800, 9600, 19200, 38400

		19200, 38400
Communication Parameters	Data Bits	7 or 8
	Parity	Odd, even, none
	Stop Bits	1 or 2
Protocol	Maintenance Communication	Possible (except for user pro- gram download and upload)
	User Communication	Possible

Terminal Arrangement				
Terminal	I/0	Description		
RS (RTS)	Output	Request to Send (constant voltage terminal)		
ER (DTR)	Output	Data Terminal Ready		
SD (TXD)	Output	Transmit Data		
RD (RXD)	Input	Receive Data		
DR (DSR)	Input	Data Set Ready		
SG (SG)	—	Signal Ground		
NC	—	No connection		
¢		Functional ground (can be used		
¢		as junction terminals of func-		
¢	_	tional ground; not connected to the internal circuit)		

### Dimensions (mm)



Mounting Hole Layout

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### IDEC:

 FC5A-D12S1E
 FC5A-EXM2
 FC5A-PMT13P
 FC5A-F2MR2
 FC5A-PMTK16E
 FC5A-F2M2
 FC5A-PMTS16E
 FC5A-F2M2
 FC5A-PMTS16E
 FC5A-F2M2
 FC5A-PMTS16E
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