

CAN-Bus Device Server



Ethernet Interface		CP200-2CI		IP2220-2I-2CI	
Number Of Ports	1	2			
Connectors	RJ45	SC Fiber			
Speed	10/100Mbps	10/100Mbps			
Fiber Interface					
Number Of Ports	/	/			
Connectors	/	/			
CAN Interface					
CAN Standard	CAN2.0A, CAN2.0B	CAN2.0A, CAN2.0B			
Signals	SHELL, CAN-L, CAN-H, RES+, RES-	SHELL, CAN-L, CAN-H, RES+, RES-			
Baudrate	5K-1Mbps	5K-1Mbps			
Interface Protection	2kV Surge	2kV Surge			
Connector	terminal block	terminal block			
Power Supply					
Input Voltage	9-24VDC	12-48VDC			
Power Connector	terminal block	terminal block			
Network Management and Control					
Network Protocols	ARP, ICMP, UDP, TCP, IP, HTTP, DHCP, DNS	ARP, ICMP, UDP, TCP, IP, HTTP, DHCP, DNS			
Web Console	✓	✓			
Serial Console	/	/			
Windows Utility	✓	✓			
Installation					
DIN-Rail Mounting	✓	✓			
Panel Mounting	✓	✓			
Rack Mounting	/	/			
Working Environment					
Working Temperature	-40~75°C	-40~75°C			
Storage Temperature	-40~85°C	-40~85°C			
Relative Humidity	5%~95% (no condensation)	5%~95% (no condensation)			
Dimensions					
Size (W*H*D)	70.6*94*26 (mm)	35*110*95 (mm)			

USB to RS-232/485/422 Interface Converter



USB Interface		USB232		USB4232		USB8232I		USB485		USB485I		USB4485		USB8485I			
Number Of Ports	1	1				4				1				8			
Connectors	USB A	USB A				VCC, DATA+, DATA-, GND, FG				VCC, DATA+, DATA-, GND, FG				USB type A			
Speed	/	/				/				/				/			
Serial Interface		USB 1.1/USB2.0 compliant, EIA RS-232		USB 1.1/USB2.0 compliant, EIA RS-232		USB 1.1/USB2.0 compliant, EIA RS-232		USB 1.1/USB2.0 compliant, EIA RS-485		USB 1.1/USB2.0 compliant, EIA RS-422		USB 1.1/USB2.0 compliant, EIA RS-422, EIA RS-485		USB 1.1/USB2.0 compliant, EIA RS-422, EIA RS-485			
Number Of Ports	1 x RS-232	1 x RS-232				8 x RS-232				1 x RS-485				1 x RS-232/485/422			
Connectors	DB9 male / Terminal block	DB9 male / Terminal block				15 KV ESD, 600V surge				300bps-115200bps				RTS/CTS			
Interface Protection	15 KV ESD, 600V surge	15 KV ESD, 600V surge				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark			
Serial Communication Parameters	Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark	Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark				Data Bits: 5, 6, 7, 8, Stop Bits: 1, 2, Parity: None, Even, Odd, Space, Mark			
Baudrate	300bps-115200bps	300bps-115200bps				300bps-115200bps				300bps-115200bps				300bps-115200bps			
Flow Control	RTS/CTS	RTS/CTS				RTS/CTS				RTS/CTS				RTS/CTS			
Driver Support		Windows 2000		✓		✓		✓		✓		✓		✓			
	Windows XP/2003/x86/x64	✓				✓				✓				✓			
	Windows Vista/x86/x64	✓				✓				✓				✓			
	Windows CE 4.2/5.0/5.2/6.0	✓				✓				✓				✓			
	Mac OS-X	✓				✓				✓				✓			
	Linux (above 2.4 versions), x86, 64 Linux	✓				✓				✓				✓			
Environmental Limits		Working Temperature		-20~60°C		-40~75°C		-20~60°C		-40~75°C		-20~60°C		-40~75°C			
	Storage Temperature	-25~85°C				-40~85°C				-25~85°C				-40~85°C			
	Relative Humidity	5%~95% (no condensation)				5%~95% (no condensation)				5%~95% (no condensation)				5%~95% (no condensation)			
Power Requirements		Input Voltage		/		5VDC		/		12VDC (9-48VDC)		5VDC		9VDC			
Dimensions		Size (L*W*H)		72*33*18 (mm)		160*94*28 (mm)		230*148.3*40 (mm)		72*33*18 (mm)		100*69*22 (mm)		160*94*28 (mm)			
		72*33*18 (mm)				160*94*28 (mm)				230*148.3*40 (mm)				100*69*22 (mm)			

RS-232/485/422 Interface Converter

Serial Interface	TLC485	TLC422	MODEL485P	SW485CI	SW485PI
RS-232	✓	✓	✓	✓	✓
RS-422/485	/	/	✓	✓	/
RS-422	/	✓	/	/	/
RS-485	✓	/	/	/	✓
Connector	DB9 / terminal block	DB9 / terminal block	DB9 / terminal block	15kV ESD, 600W surge	terminal block
Interface Protection	15kV ESD		15kV ESD, 600W surge	3kV electrical isolation	2kV electrical isolation
Compliance			EIA RS-232, EIA RS-422, EIA RS-485		
Baudrate			300bps~115200bps		
Flow Control			auto detect direction control		
Working Environment					
Working Temperature	-20~60°C	-20~60°C	-20~60°C	-10~75°C	-40~75°C
Storage Temperature	-25~85°C	-25~85°C	-25~85°C	-40~85°C	-40~85°C
Relative Humidity			5%~95% (no condensation)		
Power Requirements					
Input Voltage	/	/	9VDC	9~36VDC	12~48VDC
Dimensions					
Size (W*H*D)	90*33*16.5 (mm)(DB9)	65*55*16.5 (mm)(DB25)	62.4*93*22 (mm)	69*100*22 (mm)	35*100*95 (mm)

CAN-Bus to RS-232/485/422 Converter

Serial Port	CAN232	CAN485
Standard	EIA RS-232C	EIA RS-485
Protocol	Modbus RTU (optional)	Modbus RTU (optional)
Serial Port Quantity	1 RS-232 serial port	1 RS-485 serial port
RS-485 Signal	TXD, RXD, GND	D+, D-, GND
Baud Rate	300~115200bps	300~115200bps
Data Bit	8bit	8bit
Check Bit	None, Even, Odd, Space, Mark	None, Even, Odd, Space, Mark
Stop Bit	1bit, 2bit	1bit, 2bit
Interface Form	DB9, Female	DB9, Female
Transmission Distance	15m	1200m
CAN Interface		
Standard	CAN2.0A, CAN2.0B	CAN2.0A, CAN2.0B
Interface Quantity	1 CAN port	1 CAN port
CAN Signal	CANH, CANL, GND	CANH, CANL, GND
Duplex Mode	2-wire Half Duplex Mode	2-wire Half Duplex Mode
Baud Rate	2.5kpbs~1000kpbs	2.5kpbs~1000kpbs
Load Capacity	support concurrent transmitting of 110 nodes	support concurrent transmitting of 110 nodes
Transmission Distance	40m~10km	40m~10km
Interface Form	adopt 5-pin 5.08mm pitch terminal blocks	adopt 5-pin 5.08mm pitch terminal blocks
Terminating Resistor	optional external 120Ω terminating resistor	optional external 120Ω terminating resistor
Interface Protection	2kVAC isolation protection	2kVAC isolation protection
Working Environment		
Working Temperature	-40~75°C	-40~75°C
Storage Temperature	-40~85°C	-40~85°C
Relative Humidity	5%~95% (no condensation)	5%~95% (no condensation)
Power Requirement		
Input Voltage	9~48VDC	9~48VDC
Dimensions		
Size (W*H*D)	69*100*22 (mm)	69*100*22 (mm)

Surge Protector

	FL45	FL485	FL-BNC
Date Line Surge Protection			
Interface	RJ45	terminal block	BNC
Standard	IEC6100-4-5, ITU-TK20 & 21	IEC6100-4-5, ITU-TK20 & 21	IEC6100-4-5, ITU-TK20 & 21
Nominal Discharge Current (In)	5kA (8/20 S) ¹⁾	5kA (8/20 S) ¹⁾	5kA (8/20 S) ¹⁾
Working Voltage	0-5V	0-5V	0-2V
Limit Voltage	≤40V	≤15V	≤30V
Apply Band rate	100Mbps	1Mbps	10Mbps
Insert Consumption	≤0.5dB	≤0.5dB	≤0.5dB
Delay Time	<1ns	<1ns	<10ns
Working Environment			
Working Temperature	-20°C-60°C	-20°C-60°C	-20°C-60°C
Storage Temperature	-25°C-85°C	-25°C-85°C	-25°C-85°C
Relative Humidity	5%-95% (no condensation)	5%-95% (no condensation)	5%-95% (no condensation)
Dimensions			
Size (W*H*D)	84*75*25 (mm)	80*25*25 (mm)	86*25*25 (mm)



Media Converter



	MODEL100	MODEL3012
IEEE Standards		
IEEE 802.3	✓	✓
IEEE 802.3u	✓	✓
IEEE 802.3ab	/	✓
IEEE 802.3z	/	✓
Interface		
RJ45 Ports	10/100Base-T (X)	10/100/1000Base-T (X)
Fiber Modes	multi-mode fiber/single-mode fiber	multi-mode fiber/single-mode fiber
Fiber Ports	100Base-FX (SC/S1FC)	1000Base-FX (SC/S1FC)
Transmission Distance		
Twisted Pair Cable	100m	100m
Single Mode Fiber	1310nm/20/40/60km, 1550nm/80/100/120km	1310nm/20/40/60km, 1550nm/80/100/120km
Multimode Fiber	850nm/2km, 1310nm/2/5km	850nm/2km, 1310nm/2/5km
Network Management & Control		
WEB Management	/	/
SNMP Management	/	/
Telnet Management	/	/
Console Management	/	/
Up Graded Online via TFTP	/	/
Power Supply		
Input Voltage	External 5VDC, built-in 220VAC, 48VDC optional	External 5VDC, built-in 220VAC, 48VDC optional
Working Environment		
Working Temperature	-10°C-60°C	-10°C-60°C
Storage Temperature	-20°C-70°C	-20°C-70°C
Relative Humidity	5%-95% (no condensation)	5%-95% (no condensation)
Dimensions		
Size (W*H*D)	94*71*26 (mm)	94*71*26 (mm)

RS-232 Isolator & Repeater

	MODEL2321	MODEL2320
Serial Interface		
Number of Ports	1*RS-232	1*RS-232
Connectors	DB9/DB25	DB9
Signal Support	TXD, RXD, GND	TXD, RXD, GND, RTS, CTS, DTR, DSR
Serial Communication Parameters	Data bits: 5, 6, 7, 8 Stop bits: 1, 2 Parity: None, Even, Odd, Space, Mark	Data bits: 5, 6, 7, 8 Stop bits: 1, 2 Parity: None, Even, Odd, Space, Mark
Baudrate	300bps-921600bps	300bps-115200bps
Compliance	EIA RS-232	EIA RS-232
Transfer Distance	5m	2km
Interface Protection	600W surge, 15KV ESD protection, 2500V electrical isolation	2.5KV electrical isolation
Working Environment		
Working Temperature	0°C-70°C	-25°C-70°C
Storage Temperature	-40°C-85°C	-40°C-85°C
Relative Humidity	5%-95% (no condensation)	5%-95% (no condensation)
Dimensions		
Size (W*H*D)	63*33*17.5 (mm)	72*33*16.5 (mm)



Media Converter Chassis



Physical Characteristics		RACK2000A	RACK2000B	RACK2000C
Number of Slots		R4S	terminal block	BNC
Dimensions		488*90*231 (mm)	483.4*90.5*291.2 (mm)	487*90*317 (mm)
Installation Options		19 inch 2U	19 inch 2U	19 inch 2U
Shell		aluminium alloy	aluminium alloy	aluminium alloy
Power Supply				
Input Voltage		AC 100~260V, 50~60HZ/DC 48V	AC 100~260V, 50~60HZ/DC 48V	AC 100~260V, 50~60HZ/DC 48V
Network Management & Control				
WEB Management		/	/	√
SNMP Management		/	/	√
Telnet Management		/	/	√
Working Environment				
Working Temperature		0°C~50°C	0°C~50°C	0°C~50°C
Storage Temperature		-40°C~85°C	-40°C~85°C	-40°C~85°C
Relative Humidity		5%~95% (no condensation)	5%~95% (no condensation)	5%~95% (no condensation)

RS-232/485/422/CAN to Fiber Converter



Optical Fiber Side		MODEL277 Series	MODEL277A	MODEL277B	MC201	IMF204/238	IMF2100
Number of Ports		1	1	1	1	2	1/2 (support ring network)
Fiber Connectors		SC/ST/FC	SC/ST/FC	SC/ST/FC	SC/ST/FC	SC/ST/FC	SC/ST/FC
Multimode			850nm/2km, 1310/2/5km				2km
Single mode			1310nm/20/40/60km, 1550nm/80/100/120km				20/40/60km
Serial Interface							
RS-232		1	/	/	/	/	1 RS-232/485/422
RS-422/485		1	/	1	/	4/8	/
CAN		/	/	/	1	/	/
Connector		terminal block	DB9	terminal block	terminal block	terminal block	terminal block
Signals		RS-232 signals: Tx, Rx, GND RS-422 signals: T+, T-, R+, R-, GND RS-485 signals: D+, D-, GND	RS-232 signals: Tx, Rx, GNG RS-422 signals: T+, T-, R+, R-, GND	RS-232 signals: Tx, Rx, GNG	CANH, CANL/GND	RS-422 signals: T+, T-, R+, R-, GND RS-485 signals: D+, D-, GND	RS-232 signal: RXD, TXD, GND RS-485 signal: D+, D-, GND RS-422 signal: T+, T-, GND, R+, R-
Compliance		EIA RS-232, EIA RS-422, EIA RS-485	EIA RS-232	EIA RS-422, EIA RS-485	CAN2.0A, CAN2.0B	EIA RS-422, EIA RS-485	EIA RS-232C, RS-485, RS-422
Baudrate		0bps~115200bps	0bps~115200bps	0bps~115200bps	2.5Kbps~1000Kbps	0bps~115200bps	300~115200bps
Power Supply							
Input Voltage		12~48VDC	5VDC, 48VDC, 220VAC		5VDC	9~48VDC/110~240VDC	12~48VDC/12~48VDC 110~370VDC/85~285VAC
Working Environment							
Working Temperature		-40°C~75°C	-10°C~60°C	-40~75°C	-40~75°C	-10°C~70°C	-40°C~75°C
Storage Temperature		-40°C~75°C	-40°C~85°C	-40~85°C	-40~85°C	-10°C~70°C	-40°C~85°C
Relative Humidity			5%~95% (no condensation)				
Dimensions							
Size (W*H*D)		100*69*22 (mm)	94*71*26 (mm)	100*69*22 (mm)	100*69*22 (mm)	200*120*35 (mm)	35*110*95 (mm)