



Supports over 450 PLC communication protocols
+
More than 300 communication drivers



APP Remote Control via HMI in Hand



Collecting data instantly
+
Intelligence data analysis



Transparent Communication



Email alarm notification
+
Real-time alarm monitoring



24V
Isolated & protected communication



Programmable macro



Visualization



Gateway Service



Connects to the IDCS



Model Name		SX51-21	SX51-51
CPU & Memory	CPU	RISC ARM9 300MHz (ARM926EJ-S)	
	Battery Backup SRAM	N/A	
	Working Memory	64MB	
	Data File Memory	128MB NAND Flash	
Serial Communications	COM1 (DB9)	RS232	
	COM2 (DB9)	RS422 or RS485	
	COM3 (DB9)	N/A	RS485
	COM4 (3-Pin Terminal)	N/A	RS485
	COM5 (3-Pin Terminal)	N/A	RS485 or RS232 (Adjust by DIP-Switch)
	Baud Rate	Up to 187.5 Kbps	
	Isolation	N/A	
USB Ports	USB Host	USB 2.0	
	USB Client	USB 2.0	
Ethernet Communications	Compatibility	IEEE 802.3, IEEE 802.3u	
	Speed	10/100 Mbps	
	No. of Ports	1 port with single IP	
	Port Connector	RJ-45, 10/100 Based-TX	
Power Supply	Isolation	YES	
	Source	External DC Power	
	Input Voltage	24 VDC $\pm 10\%$	
	Connector	3Pin-Terminal Blocks	
Environment	Isolation	YES	
	Operating Temperature	-10°C~50°C (14°F~122°F)	
	Storage Temperature	-20°C~60°C (-4°F~140°F)	
	Humidity	10% ~ 90% RH @ 40°C, non-condensing	
	Shock(operation)	Half sine, 20G, 11ms duration	
Others	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)	
	LED Indicators	PWR1/COM1/COM2 RUN/STATUS1/STATUS2	PWR1/COM1/COM2/COM3/COM4/ COM5/RUN/STATUS1/STATUS2
	Mode Switch	Status Setting Switch	
	SD Slot	N/A	
	Dimensions (WxHxD)	27 x 150.4 x 98.5 mm	
	Enclosure	Metal	
	Weight	0.4 Kg	
	Mounting	DIN-Rail Mounting/Panel Mounting	
	OS Support	RTOS (Real-time O.S.)	
Software	Software Version	PM Designer v2.1.9.05 or higher version	
	Reboot Trigger	Watchdog Timer	
	HMI Server / Client	YES	
	IDCS	YES	
RTC		N/A	
Certifications		CE, FCC	

► Naming Rule ◀

SX	51	-	2	1	G	N	-	U1	N	N
Model Name SX S-BOX			Product Series 51 51 Series 52 52 Series		Ethernet Port 1 Single Port 2 2 Ports		DI & DO N None (SX51) A DI*2 & DO*2 (SX52) (A/B/C.....Set by condition)		SRAM N No SRAM Design 0 Without SRAM 1 Built-in 128KB SRAM 4 Built-in 1MB SRAM	
			Serial Port 1 Single Port 2 2 Ports 5 5 Ports		Function G Gateway Function Only H G + HMI Server + IDCS + MQTT (PM Designer v4.0)		Battery Status N No Battery (SX51) R Built-in Battery & RTC (SX52)		Material & Case Color U1 Metal / Silver-Black	

450
300

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Email alarm notification
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Real-time alarm monitoring

Programmable macro

Watchdog function

Provides dynamic & static schedule function

2 ports with 2 IP

APP Remote Control via HMI in Hand

Transparent Communication

24V
Isolated & protected communication

Visualization

Connects to the IDCS

FTP Server/Client

Safety feedback I/O Connector



Model Name		SX52
CPU & Memory	CPU	RISC ARM9 300MHz (ARM926EJ-S)
	Battery Backup SRAM	128KB (Optional: 1MB)
	Working Memory	64MB
	Data File Memory	128MB NAND Flash
Serial Communications	COM1 (DB9)	RS232
	COM2 (DB9)	RS422 or RS485
	COM3 (DB9)	RS485
	COM4 (3-Pin Terminal)	RS485
	COM5 (3-Pin Terminal)	RS485 or RS232 (Adjust by DIP-Switch)
	Baud Rate	Up to 187.5 Kbps
	Isolation	N/A
USB Ports	USB Host	USB 2.0
	USB Client	USB 2.0
Ethernet Communications	Compatibility	IEEE 802.3, IEEE 802.3u
	Speed	10/100 Mbps
	No. of Ports	2 IP address Ports
	Port Connector	RJ-45 x 2, 10/100 Based-TX
DI/DO	Isolation	YES
	DI	Transistor DC24V
Power Supply	DO	Relay 220V4A
	Source	External DC Power
	Input Voltage	24 VDC $\pm 10\%$
	Connector	3Pin-Terminal Blocks
Environment	Isolation	YES
	Operating Temperature	-20°C~70°C (-4°F~158°F)
	Storage Temperature	-25°C~75°C (-13°F~167°F)
	Humidity	10% ~ 90% RH @ 40°C, non-condensing
	Shock(operation)	Half sine, 20G, 11ms duration
Others	Vibration (operation)	Random vibration 1 Grms (5 ~ 500 Hz)
	LED Indicators	PWR1/COM1/COM2/COM3/COM4/COM5/RUN/STATUS1/STATUS2
	Mode Switch	Status Setting Switch
	SD Slot	YES
	Dimensions (WxHxD)	27 x 150.4 x 98.5 mm
	Enclosure	Metal
	Weight	0.4 Kg
Software	Mounting	DIN-Rail Mounting/Book Mounting
	OS Support	RTOS (Real-time O.S.)
	Software Version	PM Designer v2.1.9.15 or higher version
	Reboot Trigger	Watchdog Timer
	HMI Server / Client	YES
IDCS		YES
RTC		YES
Certifications		CE, FCC

Applications

