

- Supports over 450 PLC communication protocols + More than 300 communication drivers
- Collecting data instantly + Intelligence data analysis
- Email alarm notification + Real-time alarm monitoring
- Programmable macro
- Gateway Service
- APP Remote Control via HMI in Hand
- Transparent Communication
- 24V Isolated & protected communication
- Visualization
- 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	
	Isolation	N/A	
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	Source	External DC Power	
	Input Voltage	24 VDC ±10%	
	Connector	3Pin-Terminal Blocks	
	Isolation	YES	
Environment	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	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	
Software	OS Support	RTOS (Real-time O.S.)	
	Software Version	PM Designer v2.1.9.05 or higher version	
	Reboot Trigger	Watchdog Timer	
	HMI Server / Client	YES	
RTC	N/A		
Certifications	CE, FCC, (UL61010 *Release in 2020.)		

- Supports over 450 PLC communication protocols + More than 300 communication drivers
- Collecting data instantly + Intelligence data analysis
- Email alarm notification + 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
	Isolation	N/A
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
Power Supply	Source	External DC Power
	Input Voltage	24 VDC ±10%
	Connector	3Pin-Terminal Blocks
	Isolation	YES
Environment	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	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
Software	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
RTC	YES	
Certifications	CE, FCC, (UL61010 *Release in 2020.)	

► Naming Rule ◀

SX 51 - 2 1 G N - U 1 N N

- Model Name**: SX S-BOX
- Product Series**: 51 51 Series, 52 52 Series
- Serial Port**: 1 Single Port, 2 2 Ports, 5 5 Ports
- 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
- Battery Status**: N No Battery (SX51), R Built-in Battery & RTC (SX52)
- Function**: G Gateway Function Only, H G + HMI Server + IDCS + MQTT (PM Designer v4.0)
- Material & Case Color**: U1 Metal / Silver-Black

► Applications ◀

