



# PLC HARDWARE



## IoT Edge Solution

IoT Panel & Gateway / Intelligent Connectivity

## SPK2 Serial Models



Model Name		SPK2043-30ST-P1Q1	SPK2070-30ST-P1Q1	SPK2100-30ST-P1Q1
Display	Size	4.3"	7.0"	10.1"
	Max. Resolution	480*272	800*480	1024*600
	Type	TFT LDC with LED Backlight		
	Max. colour	16-bit		
	Backlight life (hr)	About 20,000		
	Luminance	400		
Main Communications Functions		No Ethernet - includes Modbus RTU plus other serial protocols.		
Touch panel		4 Wire Analog Type		
CPU		RISC ARM9 32Bit		
Battery backup SRAM		128KB (Optional: 1024KB)		
Working memory		64MB		
Application memory		Approximately 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable battety type, 3 years battery life)		
Max. programming pages		7,999 Pages		
Max. macro commands		Unlimited		
Communication interface	Micro SD slot	N/A		
	USB host	USB 2.0		
	USB client	USB 2.0		
	COM1	RS232 (5-pin Terminal)	RS232 (DB9)	RS232 (DB9)
	COM2	RS422/485 (5-pin Terminal)	RS422/485 (DB9)	RS422/485 (DB9)
	COM3	RS485 (5-pin Terminal)	RS485 (DB9)	RS485 (DB9)
	COM4	N/A		
	COM5	N/A		
	Ethernet	N/A		
	Front Function Keys	N/A	N/A (Optional)	N/A (Optional)
	Audio Out	N/A		
	Video In	N/A		
	Front USB Host Port	N/A	N/A (Optional)	N/A
Power	Input Voltage	24VDC ± 10%		
	Consumption	10W	20W	20W
Environment	Temperature	Operating -10°C ~ 60° / Storage: -20°C ~ 70°C		
	Relative humidity	10% ~ 90%		
	Shock (Operation)	Half sine, 20G, 11ms duration		
	Vibration (Operation)	Random Vibration 1 Grms (5~500Hz)		
	FCC	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL	N/A		
	Ingress Protection	IP65		
Cooling	Natural Cooling			
Outlet Dimension WxHxD (mm)		129 x 103 x 33	203.8 x 148.8 x 31.6	270.1 x 212.1 x 37.98
Cutout dimension AxB (mm)		118.5 x 92.5	191.5 x 138	259 x 201
Net weight (Kg)		0.23	0.55	1.1

## SPK2 Serial Ethernet



Model Name		SPK2043-31ST-P1Q1	SPK2070-31ST-P1Q1	SPK2100-31ST-P1Q1
Display	Size	4.3"	7.0"	10.1"
	Max. Resolution	480*272	800*480	1024*600
	Type	TFT LDC with LED Backlight		
	Max. colour	16-bit		
	Backlight life (hr)	About 20,000		
	Luminance	400		
Main Communications Functions		Modbus RTU plus over 500 serial & ethernet protocols, MQTT, Remote PLC Program, LINE/SMS/WhatsApp Push..		
Touch panel		4 Wire Analog Type		
CPU		RISC ARM9 32Bit		
Battery backup SRAM		128KB (Optional: 1024KB)		
Working memory		64MB		
Application memory		Approximately 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable battety type, 3 years battery life)		
Max. programming pages		7,999 Pages		
Max. macro commands		Unlimited		
Communication interface	Micro SD slot	N/A		
	USB host	USB 2.0		
	USB client	USB 2.0		
	COM1	RS232 (5-pin Terminal)	RS232 (DB9)	RS232 (DB9)
	COM2	RS422/485 (5-pin Terminal)	RS422/485 (DB9)	RS422/485 (DB9)
	COM3	RS485 (5-pin Terminal)	RS485 (DB9)	RS485 (DB9)
	COM4	N/A		
	COM5	N/A		
	Ethernet	YES		
	Front Function Keys	N/A	N/A (Optional)	N/A (Optional)
	Audio Out	N/A		
	Video In	N/A	N/A	N/A
	Front USB Host Port	N/A		
Power	Input Voltage	24VDC ± 10%		
	Consumption	10W	20W	20W
Environment	Temperature	Operating -10°C ~ 60° / Storage: -20°C ~ 70°C		
	Relative humidity	10% ~ 90%		
	Shock (Operation)	Half sine, 20G, 11ms duration		
	Vibration (Operation)	Random Vibration 1 Grms (5~500Hz)		
	FCC	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL	N/A		
	Ingress Protection	IP65		
Cooling	Natural Cooling			
Outlet Dimension WxHxD (mm)		129 x 103 x 33	203.8 x 148.8 x 31.6	270.1 x 212.1 x 37.98
Cutout dimension AxB (mm)		118.5 x 92.5	191.5 x 138	259 x 201
Net weight (Kg)		0.23	0.55	1.1

## SPT2 Series Standard



Model Name		SPT2070-51ST-L1Q4	SPT2080-51ST-F1Q4	SPT2100-51ST-F1Q4
Display	Size	7.0"	8.0"	10.1
	Max. Resolution	800*480	800*600	1024*600
	Type	TFT LCD with LED Backlight		
	Max. colour	16-bit		
	Backlight life (hr)	20,000		
	Luminance	400	250	350
Main Communications Functions		Modbus RTU plus over 500 serial & ethernet protocols, MQTT, Remote PLC Program, LINE/SMS/WhatsApp Push, Remote Monitor Control..		
Touch panel		4 wire Analog Type		
CPU		RISC ARM9 32Bit		
Battery backup SRAM		128KB (Optional: 1024KB)		
Working memory		64MB		
Application memory		Approximately 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable battery type, 5 years battery life)		
Max. programming pages		7,999 Pages		
Max. macro commands		Unlimited		
Communication interface	Micro SD slot	N/A		
	USB host	USB 2.0		
	USB client	USB 2.0		
	COM1	RS232 (DB9)		
	COM2	RS422/485 (DB9)		
	COM3	RS485 (DB9)		
	COM4	RS485 (5-pin Terminal)		
	COM5	RS485 (5-pin Terminal)		
	Ethernet	YES		
	Front Function Keys	N/A (Optional)		N/A
	Audio Out	N/A		
	Video In	N/A		
	Front USB Host Port	N/A		
Power	Input Voltage	24VDC ± 10%		
	Consumption	20W		
Environment	Temperature	Operating -10°C ~ 60° / Storage: -20°C - ~ 70°C		
	Relative humidity	10% ~ 90%		
	Shock (Operation)	Half sine, 20G, 11ms duration		
	Vibration (Operation)	Random Vibration 1 Grms (5~500Hz)		
	FCC	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL	UL61010		
	Ingress Protection	NEMA Type 4X / IP66		
	Cooling	Natural Cooling		
Outlet Dimension WxHxD (mm)		203.8 x 148.8 x 37.1	231.6 x 176.3 x 43.4	270.1 x 212.1 x 43.48
Cutout dimension AxB (mm)		191.5 x 138	221 x 163.5	259 x 201
Net weight (Kg)		0.55	1	1.1


## SPT2 Series Standard




Model Name		SPT2104-51ST-F1Q4	SPT2121-51ST-V2Q4	SPT2150-51ST-V2Q4
Display	Size	10.4"	12.1"	15.0"
	Max. Resolution	800*600	1024*768	1024*768
	Type	TFT LCD with LED Backlight		
	Max. colour	16-bit		
	Backlight life (hr)	20,000	50,000	50,000
	Luminance	400	500	500
Main Communications Functions		Modbus RTU plus over 500 serial & ethernet protocols, MQTT, Remote PLC Program, LINE/SMS/WhatsApp Push, Remote Monitor Control..		
Touch panel		4 wire Analog Type		
CPU		RISC ARM9 32Bit		
Battery backup SRAM		128KB (Optional: 1024KB)		
Working memory		64MB		
Application memory		Approximately 40MB		
Data File Memory		64MB		
Real-Time Clock (RTC)		YES (Unchargeable battery type, 5 years battery life)		
Max. programming pages		7,999 Pages		
Max. macro commands		Unlimited		
Communication interface	Micro SD slot	N/A		
	USB host	USB 2.0		
	USB client	USB 2.0		
	COM1	RS232 (DB9)		
	COM2	RS422/485 (DB9)		
	COM3	RS485 (DB9)		
	COM4	RS485 (5-pin Terminal)		
	COM5	RS485 (5-pin Terminal)		
	Ethernet	YES		
	Front Function Keys	N/A		
	Audio Out	N/A		
	Video In	N/A		
Front USB Host Port	N/A			
Power	Input Voltage	24VDC ± 10%		
	Consumption	20W		
Environment	Temperature	Operating -10°C ~ 60° / Storage: -20°C ~ 70°C		
	Relative humidity	10% ~ 90%		
	Shock (Operation)	Half sine, 20G, 11ms duration		
	Vibration (Operation)	Random Vibration 1 Grms (5~500Hz)		
	FCC	FCC Part 15 Class A		
	CE	EN61000-6-2, EN61000-6-4		
	UL	UL61010		
	Ingress Protection	NEMA Type 4X / IP66		
Cooling	Natural Cooling			
Outlet Dimension WxHxD (mm)		270.1 x 212.1 x 43.48	335.4 x 245.8 x 66.4	399.1 x 297.6 x 63.4
Cutout dimension Ax B (mm)		259 x 201	302 x 228	384.5 x 283
Net weight (Kg)		1.1	2	3




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