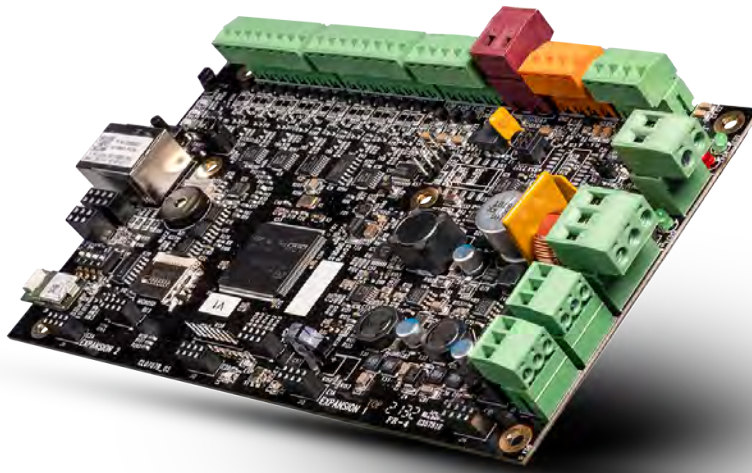


## S1000 Controller

Feel secure anywhere, anytime with the S1000 Controller. Manage access control, alarms and building management functions remotely and securely when connected to PACOM VIGIL CORE.

Robust and compact, the S1000 Controller has a built-in battery charger, wide supply range and 4G capability. It can handle temperatures up to 70°C, making it ideal in harsh, remote environments.



### FEATURES

- Standalone operation capability
- Can weather harsh environments
- Digital and analog inputs software configurable
- Built-in battery charging for SLA or Li-ion batteries
- IoT Smart Devices
- BLE local setup and control
- WAN/LAN remote operation
- 4G capable
- Modular configuration using expansion cards and remote externally connected OSDP devices
- Sensor monitoring

## TECHNICAL SPECIFICATIONS

Physical	
Dimensions	PCB only: 165mm (w) x 100mm (h) x 40mm (d) (6.5" x 3.9" x 1.6") In large metal enclosure: 469mm (w) x 254mm (h) x 91.2mm (d) (18.5" x 10.0" x 3.6") In small metal enclosure: 360mm (w) x 250mm (h) x 110mm (d) (14.2" x 9.8" x 4.3")
Packed weight	PCB only: 150g (5.3oz) In large metal enclosure: 5200g (183.4oz) In small metal enclosure: 4500g (158.7oz)
Environmental	
Operating temperature	-10°C (14°F) to 70°C (158°F) UL 294: -10°C (14°F) to 49°C (120.2°F)
Maximum humidity	95% ± 5% relative humidity (non-condensing) at 30°C (86°F)
Electrical	
Power consumption	typically 120mA at 12VDC UL 294: 1.46V at 12VDC input with full load; 1.22A at 30VDC input with full load
Power input	10VDC to 60VDC (UL 294: 15VDC to 30VDC)
Power protection	resettable fuse 3.0A
Power supply and battery	
AC input range	106V to 240VAC 50Hz/60Hz 1.5A maximum
Onboard battery charger	up to 1A Supports SLA or Li-ion batteries (Li-ion batteries are not UL verified)
Auxiliary output supply	0.5A at 10VDC to 16VDC <b>Note:</b> Auxiliary output supply is not independently monitored.
Monitoring	Battery voltage, current and temperature (UL 294: NA)
Memory	
Dual flash memory	Allows 2 versions of the firmware to be stored. Enables remote upgrades to be done without any down time.
SRAM	1MB
Program flash	2MB
Data flash	4MB
EEPROM	512K
Processor	ARM 7 32-bit at 200MHz

## TECHNICAL SPECIFICATIONS - CONTINUED

<b>Onboard I/O</b>	
Inputs	8 multi end-of-line monitored inputs or analog 0V to 10V inputs UL 294:NA) The default is 10K, but programmable from 1K to 50K (UL 294: 10K)
Outputs	2 relay NO/NC dry contact 0.5A at 120VAC (UL 294: NA) / 1A at 24VDC 3 O/C 0V to 24V at 250mA
Readers	2 Wiegand D0/D1 (door contact, egress, door strike, green/red LED control, buzzer)
<b>Database</b>	
Card/user capacity	1000 by default 500000 with an SD card
Transaction storage	1000 by default 65000 with an SD card
Holidays	100 dates 5 holiday types
Time zones	150
<b>Alarm</b>	
Inputs	254 maximum
Outputs	192 maximum
Intrusion areas	32 maximum
Alarm keypads	16 maximum
Devices	32 maximum 150 maximum with an SD card
Tamper input	1 top and 1 bottom
<b>Access control</b>	
Card formats	128-bit cards maximum
Readers	64 maximum
Doors	64 maximum
Access roles	200 maximum
Time schedules	150 maximum
Holidays	100 maximum

Miscellaneous	
Status indicators	Relay outputs Ethernet: speed and link status RS485 (TX, RX) RS232 (TX, RX) DC power Battery System status
Communication	RJ45 Ethernet port 10/100 BaseT RS485 multi-drop OSDP port isolated RS232/RS485 configurable port for third party devices BLE 4.2
Macros	1000 maximum
SSL encryption	TLS v1.2/1.3 256-bit by default to the PACOM VIGIL CORE
Supported expansion modules	
SD card slot	Micro SD slot used to increase the number of users and transactions.
Expansion ports	3 suitable for any S1000 compatible expansion module
Mini Camera	8 maximum
Audio device	16 maximum

## COMPLIANCE AND ACCREDITATION

RoHS, RCM, FCC, CE, EN 60839 Grade 3, EN 50136, EN 50130, EN 50131 Class II Grade 4

## ORDERING INFORMATION

PART NO.	TYPE CODE	DESCRIPTION
320 200 001	S1000-PCB	S1000 PCB Board only
320 200 008	S1000-PCB-KIT	S1000 PCB Board plus mounting kit for a small enclosure
320 200 006	S1000-PENC	S1000 PCB Board in a plastic enclosure
320 200 007	S1000-PENC-2P	S1000 PCB Board in a plastic enclosure with 2.5A, 240V-24V DC supply
320 200 020	S1000-MENC-2P	S1000 PCB Board in a standard small metal enclosure with 2.5A, 240V-24V DC supply
320 200 021	S1000-MENCL-2P	S1000 PCB Board in a standard large metal enclosure with 2.5A, 240V-24V DC supply
320 200 022	S1000-MENCL-5P	S1000 PCB Board in a standard large metal enclosure with 5A, 240V-24V DC supply
320 200 009	S1000-DEMO	S1000 PCB Board in a plastic enclosure with keypad, IO hardware and 2.5A supply