



Transaction. Interaction. Convergence.™

Unattended



SPU90P

Secure High Performance Pinpad & Controller

The SPU90P is a versatile Pinpad & Controller that used together with the Spire Contact and/or Contactless Readers enables fast payment at self-service and unattended points of sale.

High Performance Pinpad & Controller

for use with separate readers as peripherals

Multiple communication options

Supports all types of electronic payment applications and has a wide range of connectivity options

Weather Resistant

Housed and equipped with a metallic keypad and a colour display

Versatile payment solution

Can be used at all self-service points of sale

Modular design

Provides high flexibility for machine integration

Secure

Meets payment industries latest security standards

SPu90 Pinpad & Controller

The **SPu90P** is a secure high performance Pin-Pad & Controller mechanically designed for its integration in vending, ticketing machines and any type of self-service solutions. As a Pin-Pad, it fulfills all the security requirements of the industry and includes a weather resistant housing, a metallic keypad and a 2,8" color LCD. As a controller, it supports all type of electronic payment applications and has a wide range of communication ports to connect the module to the customer machine and optionally to the Acquirer Host.

Used together with the Spire's contact and contactless readers, the set is compatible with all Visa MasterCard, Amex and Discover transaction types including contactless, NFC, local and international e-purse, credit and debit card schemes.

Through the accompanying software development kit, local applications can be developed and certified easily, minimizing time to market and launch costs.

The SPu90P offers a variety of configuration options and delivers a powerful combination of security, speed, reliability, and ease of integration. Of particular note is the wide range of communication interfaces which facilitate simple connection with vending machines, peripherals, hosts and wireless modem.

SPu90 Modular Evolution

The updated set of unattended products will retain all the features and benefits that have made the Spire Payments' Artema unattended solution so popular with integrators. In addition, new features include enhanced power management (for solar operation) and contactless support.

Using the same rugged physical and logical interfaces as the proven Spire Payments' Artema unattended solution, combined with the ability to run current software applications, the SPu90 provides a simple migration and upgrade path for existing and new partners.

Based on Spire Payments' proven and easy-to-use inSPire™ development environment combined with the SP family security architecture and PKI, unattended product suite is fully PCI PTS SRED compliant.

SPu90P used in conjunction with the SPu90H or SPu95H contact readers and with the SPu90R contactless antenna takes self-service solutions to new heights.

SPu90P Technical Features

Display	Colour 2.8" TFT display (Landscape - 240 x 320 pixels - Lens: Glass, Anti-Glare top surface, scratch resistant)
Keyboard	16 keys with positive feedback
Housing	Anti-vandal metal front bezel and Keys - Marine Grade Stainless Steel
Protection	Ingress IP65, Shock IK08
CPU	High Performance 400MHz Secure ARM 11 + Dedicated MCU with Real Time Clock
Beeper	Piezo Speaker, Two Volume levels, multi-frequency
Heater	Resistive Heating Board thermastatically controlled
Memory	128 MB NAND Flash, optional 256MB 2MB NOR Flash Bootloader 64MB SDRAM
Comms interfaces	LAN-TCP/IP
Encryption and key management	Master/ Session & DUKPT Key Management - Support for SRED
Certifications	PCI PTS SRED 4.x Compliant - EMV Compliant
Physical interfaces	4 x Serial interface ports allowing power, control interfaces and wake in/ out - 1 x USB OTG port - 1 x USB Device port - 1 x SAM connector - Ethernet LAN 10/100 port - Interface to external Contactless SC antenna module - Interface to Vending machines over MDB connector - Beeper piezo speaker multi frequency
Switches	1x Red LED - 1x Green LED - 2 Push buttons located at the back of the unit
Power	10V to 45V DC (peak) via MDB port
Dimensions	Base - 143 mm (L) x 92 mm (W) x 44 mm (H)
Environmental	Operation -20 °C to +65 °C - Storage -20 °C to +70 °C Humidity 95% Maximum non-condensating (operating at 45 °C)



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