



Unattended

Transaction. Interaction. Convergence.™



SPu90 Modular

Universal self-service payment solution

The SPu90 Modular is a versatile solution that enables fast payment with all card types at self-service and unattended points of sale.

Compact, hybrid reader

Manual for magnetic stripe and chip cards

Multiple communication options

Connects with a wide range of systems and networks

Contactless reader

Separate contactless module for optimum flexibility

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 Modular

The **SPu90 Modular** product suite provides a solution which facilitates unattended card payments including magnetic stripe, chip (EMV with or without PIN), and contactless (Paypass and payWave).

Compatible with all Visa and MasterCard 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, minimising time to market and launch costs.

The SPu90 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 colour display, 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, the unattended product suite is fully PCI PTS SRED compliant.

With options including contactless for all major schemes plus colour screen, the SPu90 will take self-service solutions to new heights.

SPu90H Hybrid MSR/Chip Reader (Optional)

Smartcard/MSR reader Hybrid chip and magnetic stripe reader (ISO 7816, ISO 7811, 3 tracks, T=0, T=1, A, B, AB classes) • Anti-vandal metal bezel Shutter to prevent foreign body insertion Emergency power-fail card release



Encryption and key management Remote pairing with SPu90P/C Support for SRED

Comms interfaces Serial RS232

Physical interface Serial port for power and "wake" interfaces Up to 5 SAM connectors

Power 12V DC • Via RS232 port

Dimensions 137 mm (L) x 80.6 mm (W) x 69.7 mm (H)

Installation cut-out 73.2 mm (W) x 61.2 mm (H)

Environmental -20 °C to +65 °C • 500,000 card insertion cycles

SPu90P PIN Pad & Display (Includes SPu90C)



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 (PIN Pad), Shock IK08 (PIN Pad)

CPU High performance 400MHz Secure ARM 11

Memory 128 MB NAND Flash, optional 256MB
2MB NOR Flash for Bootloader
32MB SDRAM optional 64MB

Comms interfaces LAN-TCP/IP

Encryption and key management Master/ Session & DUKPT Key Management • Support for SRED

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

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)

SPu90R Contactless Reader (Optional)



Contactless reader Contactless interface • EMV, Paypass, payWave • ISO 14443, 13.56MHz, Type A/ Type B • Mifare, DESFire tags, NFC • 4 LEDs • Weather proof, UV rated plastic, Piezo beeper, multi frequency

Interface 6 pin header, and SMA coax, 50cm interface cable to SPu90P or C included

Dimensions 15 mm (L) x 75 mm (W) x 65 mm (H)

Certifications PCI PTS SRED 4 x compliant • EMV compliant (for all SPu90 modules)

Protection Ingress IP65, Shock IK08

Environmental Operation -20 °C to +65 °C • Storage -20 °C to +70 °C
Humidity 95% Maximum non-condensating (operating at 45 °C)

SPu90C Controller

As per SPu90P with the exception of keyboard and display.



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