



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

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 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.



Transaction. Interaction. Convergence.

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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.



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

