PD8700 Series

Interactive Color Payment Systems

FEATURES

Bi-directional, dual-head, 3-track magnetic stripe reader (MSR); dedicated MSR processor
Provides fast, accurate processing, regardless of which way the card is swiped

Advanced hardware and software architecture; high-performance 32-bit processor
Delivers the speed and performance required for rapid data transmission

Signature capture and virtual PIN pad
Provides multiple payment options including credit and debit

Resistive pressure-sensitive touch stylus screen technology
Enables operation by finger and/or stylus, increasing uptime and reducing TCO

Exclusive auto-sensing screen protection system
Provides long-lasting display clarity and expands the life of the touchscreen while offering reliable touchscreen performance

Build customer loyalty with every transaction

Motorola's PD8700 is a high performance, highly secure, interactive color payment device that not only provides fully integrated debit, credit, smart card and contactless payment capabilities, but also allows you to create customer-oriented, non-payment applications, such as instant credit, HIPAA compliance and digital advertising. The 5.7" backlit color display presents vibrant, high quality images that are easy to see in dim or well-lit areas, and the pressure sensitive touchscreen, which supports both finger and stylus pen touch, delivers both high quality signature capture and reliable PIN entry. PED-certified and meeting all industry standards and PIN entry requirements, the multi-functional PD8700 improves the customer checkout experience while it reduces transaction and payment-related costs.

Fast, secure payment processing

Engineered to speed your customers through the checkout, the PD8700's bi-directional, dual-head, 3-track magnetic stripe reader (MSR) and dedicated MSR processor ensure fast, accurate transaction processing, regardless of which way the card is swiped. The combination of advanced communications options, including RS-232, non-powered and powered USB, and Ethernet, and Intel XScale 32-bit processor enable rapid data transmission. To ensure the utmost data security, the PD8700 employs an advanced standards-based POS Public Key Encryption, which uses the RSA algorithm to protect against unauthorized applications and PIN compromise attacks.

Easy integration

Integration, as well as updates to transaction flow and screen content, can be achieved faster and at less expense with the PD8700, thanks to the flexible Forms Processing Engine (FPE). FPE is supported by FormBuilder, an intuitive development tool that lets you create standard and custom user screens. OPOS, JavaPOS and direct command interfaces, as well as flexible communications options, further facilitate integration.

Lower TCO, increased revenue

In addition to lower development costs, the PD8700 lowers your TCO through its stable resistive technology, which enables customers to operate the pressure sensitive touchscreen with their fingers or the electronics-free stylus. So, the PD8700 lets you keep serving customers even if the stylus is lost or missing. Electronic signature capture with the PD8700 also helps reduce the operating and administrative costs associated with paper-based systems, and, since you can retrieve virtually all transaction information instantly, you can also reduce chargeback costs.

Large, vibrant color backlit display
Displays high quality images for consumers; easy to see in dim or well-lit areas; durability to withstand everyday, all-day use

Splash-resistant physical keypad with integrated privacy shield
Maximizes uptime while providing enhanced customer privacy during PIN entry

Forms Processing Engine and FormBuilder screen custom development tool
Provides the ability to create custom user interfaces such as credit applications, loyalty card sign-up, digital signage and other store advertising

Variety of communications and connectivity options
Ensures compatibility with all host systems

Full complement of Windows-based simulator and GUI development tools
Enables fast and easy integration and rapid prototyping

For more information about how Motorola's PD8700 improves the customer checkout experience, while reducing transaction and payment-related costs, contact us at +1.800.722.6234 or +1.631.738.2400, or visit us on the Web at www.symbol.com/pd8700.

PD8700 Series Specifications

Physical Characteristics	
Dimensions:	8.39 in. L x 8.19 in. W x 3.46 in. H 21.30 cm L x 20.8 cm W x 8.8 cm H
Weight:	1 lb 9 oz/0.86 kg
Display:	High contrast, 5.7 in. VGA color backlit LCD (standard); Touchscreen with screen protector; screen protector absence sensor prohibits use without screen protector in place
LCD Size:	5.7 in. diagonal
LCD Resolution:	Color 1/4 VGA, 320 L x 240 W, 65,536 colors
Touch Pad:	Resistive, transparent, pressure sensitive technology
Touch Pad Resolution:	4096 x 4096 (x, y coordinates) 910 H x 1260 V (dpi)
Power Source:	AC: 100-240 V, 50/60 Hz DC: 12V @ 700mA or 24 V @ 350mA
Communications:	Two RS-232 ports (if contactless payments reader is configured, only one RS-232 port is available);12v/24v powered USB ports; optional 10/100 Base-T Ethernet RJ-45 connector; optional compact flash, 3.3v cards only
Performance Characteristics	
Processor:	Intel XScale 200MHz, 32-bit processor
Memory:	4MB Flash/8MB SDRAM (standard) 8MB Flash/16MB SDRAM (optional)
Card Reader:	*Magnetic stripe*: Bi-directional, dual-head, 3-track reader (standard) *Smart card (optional)*: EMV level-1; ISO 7816; non-captive; 3v and 5v cards; two 5v SAMs *Contactless payment*: Integrated (optional); compliant with ISO 14443 A & B
Encryption:	*DES*: Visa PED approved; PIN-ANSI X9.8, MAC-ANSI X9.9 Part 1-ANSI X9.24 *Triple DES*: ANSI X9.52 *Key management*: DUKPT and master/session keys
Reliability:	100,000 hours (MTBF calculated)
Screen Development:	FormBuilder application development tool
Peripherals and Accessories	
SDK Suite:	FPE Developers Toolkit: • Win32: Windows 2000/XP • DOS • IBM 4690/IBM EFT Protocol • OPOS • JPOS
Regulatory	
Electrical Safety:	CE, UL
EMI/RFI:	FCC Class B, CISPR B
Environment	
Temperature:	32° to 115° F/0° to 45° C
Humidity:	Maximum 85%, non-condensing
ESD:	12,000 volts

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