



# PD4750 Series

## 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

#### 16-shade grayscale display

Displays crisp images and ensures high quality signature capture

#### Splash-resistant physical keypad with integrated privacy shield

Maximizes uptime while providing enhanced customer privacy during PIN entry

#### Resistive pressure-sensitive touchscreen technology

Enables operation by finger and/or stylus, increasing uptime and reducing TCO

### Cost-effective transaction management and signature capture system

Motorola's PD4750 is a high performance, highly secure, signature capture payment device that provides fully integrated debit, credit, smart card and contactless payment capabilities. The 16-shade grayscale, pressure resistant touchscreen display enables not only high quality signature capture, but also crisp, on-screen graphics for advertising. PCI-PED-certified and California ADA-compliant, the PD4750 delivers payment flexibility and fast checkout to your customers while enhancing your revenue generation and cost reduction efforts.

### Fast, secure payment processing

Engineered to speed your customers through the checkout, the PD4750'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, Powered USB, Ethernet, and Intel XScale 32-bit processor enable rapid data transmission. To ensure the utmost data security, the PD4750 employs an advanced standards-based POS Public Key Encryption, which uses the RSA algorithm to protect against unauthorized applications and PIN compromise attacks. And the durable, splash-resistant fixed keypad includes an integrated privacy shield to further protect consumer privacy during PIN entry.

### Easy integration

Integration and updates to transaction flow and screen content can be achieved faster and at less expense with the PD4750, 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 PD4750 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 PD4750 lets you keep serving customers even if the stylus is lost or missing. Electronic signature capture with the PD4750 also significantly reduces 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 expenses.

For more information about how Motorola's PD4750 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/pd4750](http://www.symbol.com/pd4750)

## SPECIFICATION SHEET

PD4750 SERIES  
Payment systems

### Exclusive auto-sensing screen protection system

Provides long-lasting display clarity and expands the life of the touchscreen while offering reliable touchscreen performance

### Forms Processing Engine and FormBuilder development tool

Facilitates integration and the creation of custom screens

### 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

# PD4750 Specifications

## Physical Characteristics

Dimensions:	8.22 in. L x 6.06 in. W x 2.36 in. H 20.9 cm L x 15.4 cm W x 6.0 cm H
Weight:	1.29 lbs/0.59 kg
Display:	16-shade grayscale backlit LCD; 220 x 80 pixels
Touchscreen:	Resistive, transparent, pressure sensitive technology; touchscreen with screen protector; screen protector absence sensor prohibits use without screen protector in place
Keypad:	13 color-coded keys; splash-resistant; hard keycaps; attached privacy shield
Power Source:	AC: 100-240 V, 50/60 Hz DC: 12V @ 700mA or 24 V @ 350mA
Communications:	Mini-DIN port: RS-232 asynchronous; Client USB IBM-retail with power-in (12/24v); 10/100Base-T Ethernet RJ-45 connector
Buzzer:	4.0 KHz (peak) 70 dB minimum level at 1 ft./30.48 cm

## Performance Characteristics

Processor:	Intel XScale 200MHz, 32-bit processor
Memory:	4MB Flash/8MB SDRAM (standard)
Card Reader:	<i>Magnetic stripe</i> : bi-directional, dual-head, 3 track reader (standard) <i>Smart card (optional)</i> : EMV level-1; ISO 7816; non-captive; 3v and 5v cards; two 5v SAMs <i>Contactless payment</i> : integrated (optional); compliant with ISO 14443 A & B; supports American Express, MasterCard and Visa

Encryption:	<i>DES</i> : Visa PED approved; PIN-ANSI X9.8, MAC-ANSI X9.9 Part 1-ANSI X9.24 <i>Triple DES</i> : ANSI X9.52 <i>Key management</i> : DUKPT and master/session keys
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Reliability:	100,000 hours (MTBF calculated)
Screen Development:	FormBuilder application development tool

## Peripherals and Accessories

SDK Suite:	FPE Developers Toolkit <ul style="list-style-type: none"><li>• Win32: Windows 2000/XP</li><li>• DOS</li><li>• IBM 4690/IBM EFT Protocol</li><li>• OPOS</li><li>• JPOS</li></ul>
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## Regulatory

Electrical Safety:	CE, UL
EMI/RFI:	FCC Class B, CISPR B

## Environment

Temperature:	32° F to 115° F/0° C to 45° C
Humidity:	Maximum 85%, non-condensing
ESD:	12,000 volts



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