

Payment solution

unattended terminals





Introduction

Security aspects

Security is critical for unattended POS-terminals, because they are in public places and often accessible 24/7. They need to be protected against tampering (fraud) and against vandalism.

All our terminals have a tamper-evident design that makes it easy for the card-holder to spot attempts at fraud. All unattended terminals from Worldline comply with recent national and international security requirements.

User focused

With no cashier available to offer help and advice, unattended terminals have to be exceptionally easy to use. Terminals from Worldline have an outstanding reputation for their intuitive user interface. Clear symbols, coloured keys and easy-to-read displays guide the cardholder through every transaction.

Performance

Our System-on-Chip technology runs a Linux® operating system, offering superb security and a familiar environment for software development teams.

With its powerful dual core processor, the chip guarantees total security and unrivalled transaction speeds.

Integration environment

Our range of unattended terminals includes solutions for every demand or integration environment. All the terminals are suitable for use both indoors and outdoors.

- ▶ **XENTIM:** compact EMV chip card reader for no-PIN transactions. Its small display and simple three-key interface make it ideal for integration in vending machines.
- ▶ **XENTEO:** complete EMV terminal with intelligent keyboard, display and hybrid card reader. Designed for kiosk and ticketing applications.
- ▶ **XENOA:** EMV hybrid card reader without display or keypad. Suitable for low-value transactions such as on-street parking.
- ▶ **YONEO:** contactless (NFC) reader – our latest innovation. Can be used as a standalone device or combined with other Worldline unattended terminals.

Low cost of ownership

Thanks to their industrial-strength design and robust construction, Worldline terminals handle tens of thousands of transactions without a strain. They offer reliable, long term support for your business activities, reducing development and integration efforts.

Total cost of ownership is further reduced by XENTURION, our optional terminal management system. Managing terminals remotely with XENTURION means less downtime and fewer field service interventions.

Quality and innovation deliver lasting solutions.

Card types

Unattended terminals from Worldline can be used with all types of card: debit, credit, e-purse, Mifare™, loyalty, prepaid ...

Robust and vandal-proof

We use carefully-chosen materials, including stainless steel and specially strengthened plastics, to make our unattended terminals as vandal-resistant as possible. Any attempt to remove or damage the terminals automatically disables them, and destroys any sensitive data.

Our terminals are also designed to be wind-proof, weatherproof and impact-resistant.

XENTEO ECO

User-centric design

The energy-efficient XENTEO™ ECO is a complete self-payment solution. Its low power consumption, clean lines, well-designed intelligent keypad and backlit display make it a pleasure to use.

Everything about the XENTEO ECO puts users first, whether they are cardholders, integrators or technicians. Accessible connectors and compact design make it easy to install and maintain. The card reader component can be placed alongside the keypad, above it or below it.

With Ethernet connectivity built in and a range of other options available, XENTEO ECO is the ideal flexible solution for unattended payment environments.

Options and accessories

Optional interface boards for 3G, 2G, WiFi/Bluetooth or PSTN (dial-up) communications, with external antenna where needed, let you add communications possibilities to your XENTEO.

The standard integration kit includes a mounting brace with screws and a watertight gasket. The optional water evacuation kit makes sure any water entering the vending machine drains away safely.

The XENTEO privacy shield is easy to fit, integrates perfectly with the terminal, complies with all PCI PED requirements and helps meet any local requirements. Integrators may choose to offer their own solution.

On request, both keypad and card reader can be delivered with extra anti-skimming measures.

A contactless reader for NFC cards and devices is available.

Terminal management

Manage your terminal park with XENTURION®, for:

- ▶ secured remote software download
- ▶ scheduling and parameter management
- ▶ remote terminal support and diagnostics
- ▶ remote key loading (RKL)

Care for the environment

Like all current Worldline products, the XENTEO ECO is manufactured in line with RoHS2 & WEEE standards.

Specifications

Processor

- ▶ 2 x 32 bit ARM™ processor cores
- ▶ Hardware cryptographic accelerators

Memory

- ▶ RAM 32 MB, Flash 64 MB

SAMs

- ▶ 2 SAM slots (type ID O)

Security

- ▶ 3DES, AES and RSA encryption algorithms
- ▶ DUKPT key management
- ▶ Additional security schemes available
- ▶ SSL v3.0

Approvals

- ▶ EMV 4.1 level 1 and 2
- ▶ PCI PTS 3.x (SRED, Open Protocols)
- ▶ TQM
- ▶ CE, EMC
- ▶ GIE Cartes Bancaires
- ▶ compliant with AFAS standards (France)
- ▶ Vandal-proof class IK07

Software

- ▶ Linux® operating system
- ▶ Linux-based development kit (C and Java)
- ▶ Secured remote software download

Keypad

- ▶ Backlit ergonomic keypad
- ▶ Dustproof and waterproof (class IP65)

Display

- ▶ 128 x 64 pixel backlit graphic display
- ▶ Anti-reflective and anti-scratch

Size and weight

- ▶ Intelligent keypad: 168 x 110 x 47 mm (l x w x h); weight 750 g
- ▶ Reader: 159 x 108 x 73 mm (l x w x h); weight 700 g

Communications

- ▶ Ethernet interface (standard)
- ▶ Optional communication interfaces:
 - 2G: GSM, GPRS, EDGE (850, 900, 1800 and 1900 MHz)
 - WiFi, Bluetooth
 - PSTN (dial-up)

Peripheral ports

- ▶ 1 x vending machine controller (RS232)
- ▶ 1 x printer or other peripheral (RS232)

Operating conditions

- ▶ Temperature: operating -20°C to 70°C; storage -25°C to 70°C
- ▶ Humidity (non-condensing): operating: 0-90% RH; storage: 0-95% RH

Power supply

- ▶ Power supply: 12 V, 1.5 A
- ▶ Power consumption in sleep mode with reader: 4mA
- ▶ Power consumption in card-reading mode: 370mA

Additional features

- ▶ Hybrid, manual reader (chip-card and triple-track magnetic-stripe)
- ▶ Buzzer, optionally usable as speaker



XENOA ECO

The energy-efficient XENOA™ ECO is a vandal-proof terminal for e-purse or low-value payments without PIN: ticketing kiosks, parking meters and vending machines.

Consisting of a secure and intelligent hybrid card-reader for chip- and magstripe cards, XENOA features onboard Ethernet and serial interfaces. Its metal bezel vouches for your protection against vandalism and fraud attempts.

XENOA is one of the first PCI PTS 3.1 (SRED) certified devices in the non-PED category.

The XENOA can be integrated with a range of other equipment for enhanced interaction with cardholders: vending machine display and keypad, virtual keypad, Worldline contactless reader ...

Unique features

- ▶ **AFAS ball**
The XENOA can be supplied with an AFAS-compliant skimming deterrent.
- ▶ **Status LED**
A LED at the back provides immediate visual feedback on the device status.



- ▶ **Contactless reader**
Contactless NFC reader optionally available.
- ▶ **Low power consumption**
XENOA is the perfect solution for integration in solar-powered kiosks, thanks to its extremely low power-consumption – 2mA in sleep mode.

Terminal management

Manage your terminal park with XENTURION®, for:

- ▶ secured remote software download
- ▶ scheduling and parameter management
- ▶ remote terminal support and diagnostics
- ▶ remote key loading (RKL)

Care for the environment

Like all current Worldline products, the XENOA ECO is manufactured in line with RoHS2 & WEEE standards.

Specifications

Processor

- ▶ 2 x 32 bit ARM™ processor cores
- ▶ Hardware cryptographic accelerators

Memory

- ▶ RAM 32 MB, Flash 64 MB

Security

- ▶ 3DES, AES and RSA encryption algorithms
- ▶ DUKPT key management
- ▶ Additional security schemes available
- ▶ SSL v3.0

Suspend mode and fast wake-up mode

- ▶ Different power management profiles can be used
- ▶ Multiple wake-up sources: card insertion, serial port

Approvals

- ▶ EMV 4.3 level 1 and 2
- ▶ CE, EMC PCI PTS 3.x (SRED, Open Protocols)
- ▶ TQM
- ▶ Vandal-proof class IK07

Software

- ▶ Linux® operating system
- ▶ Linux-based development kit (C and Java)
- ▶ Secure remote software download

Keypad

- ▶ Can communicate with vending machine keypad

Additional features

- ▶ Can communicate with vending machine display
- ▶ Hybrid manual card reader (chip, triple-track magnetic stripe)

Communications

- ▶ Ethernet Interface (standard)

Peripheral ports

- ▶ 1 x vending machine controller (RS232)
- ▶ 1 x optional vending machine RS485 peripheral

Operating conditions

- ▶ Temperature: operating -20°C to 70°C; storage -25°C to 70°C
- ▶ Humidity (non-condensing): operating: 0-90% RH; storage: 0-95% RH

Size and weight

- ▶ 159 x 108 x 73 mm (l x w x h); weight 700 g

Power supply

- ▶ Power supply: 12 V, 1.5 A
- ▶ Power consumption in sleep mode 12V, 2mA
- ▶ Power consumption in card-reading mode: 12V, 155mA

Development/integration kit

- ▶ Reader compression plate



YONEO

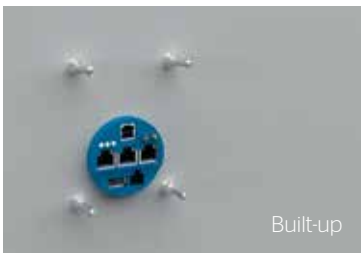
YONEO™ is a robust contactless payment terminal for NFC payments without PIN: ideal for applications such as ticketing kiosks, parking meters and vending machines.

YONEO is an intelligent NFC reader for EMV, Mifare and other cards. Its smart design and backlit TFT colour display make for an enjoyable payment experience. Small footprint plus onboard Ethernet and serial interfaces make integration in the vending machine simple and intuitive.

PCI PTS certified, the YONEO is built to resist vandalism and fraud attempts.

Unique features

- ▶ Attractive user interface with backlit logo, backlit TFT colour display and software controlled LEDs
- ▶ Elegant and ergonomic design
- ▶ Easy, flexible integration in a kiosk
- ▶ Surface mounted or built-in configurations for high integration versatility.



LEDs and buttons

- ▶ Three LEDs at the back provide immediate visual feedback on the device status
- ▶ Two technician buttons to reset and wake up the terminal

Cables and accessories

- ▶ MDB cable, GSM/GPRS card, external antenna

Versatility

Even the built-in configuration of the YONEO takes up almost no space inside the vending machine: compare this with the footprint of a bank note acceptor (BNA) or coin detector. The contactless reader can be used by itself, or combined with any other Worldline unattended terminal. Typical scenarios for NFC include:

- ▶ Vending machines (drinks & snacks)
- ▶ Petrol stations and power meters
- ▶ On-street and off-street parking
- ▶ High-end kiosks (combined with XENTEO intelligent keypad)

Terminal management

Manage your terminal park with XENTURION®, for:

- ▶ secured remote software download
- ▶ scheduling and parameter management
- ▶ remote terminal support and diagnostics
- ▶ remote key loading (RKL)

Care for the environment

Like all current Worldline products, the YONEO is manufactured in line with RoHS2 & WEEE standards.

Specifications

Processor

- ▶ Dual ARM™ 9 processor cores
- ▶ Superior cryptographic accelerators

Memory

- ▶ 64 MB RAM, 128 MB Flash

Security

- ▶ 3DES, AES and RSA encryption algorithms
- ▶ DUKPT key management
- ▶ Additional security schemes available
- ▶ SSL v3.0

Suspend and fast wake-up modes

- ▶ Different power management profiles can be used
- ▶ Multiple wake-up sources: card insertion, communication port

Approvals

- ▶ EMV 4.3 level 1 and 2
- ▶ PCI PTS 3.x, (SRED and open protocols)
- ▶ TQM,
- ▶ CE, EMC
- ▶ Dustproof and waterproof class IP65
- ▶ Vandal proof class IK07

Software

- ▶ Linux® operating system
- ▶ Linux-based development kit (C and Java)
- ▶ Secured remote software download

Display

- ▶ 320 x 240 pixels colour TFT display (64K colours)
- ▶ Optionally available without display

Accepts following cards

- ▶ EMV, Mifare classic/Desfire
- ▶ Contactless cards (ISO14443, type A/B)

Communications

- ▶ Ethernet interface (standard)

Peripheral ports

- ▶ 1 x vending machine controller (RS232)
- ▶ 1 x vending machine controller (USB device)
- ▶ 1x USB host interface
- ▶ 1 x optional MDB interface peripheral
- ▶ I/O available (1 out, 2 in)

Operating conditions

- ▶ Temperature: operating -20°C to 70°C; storage -25°C to 70°C
- ▶ Humidity (non-condensing): operating: 0-90% RH; storage: 0-95% RH

Size and weight

- ▶ 107,5 x 85,4 x 23 mm (l x h x d); weight 200 g

Power supply

- ▶ Power supply: 12 V, 1.5 A via Microfit
- ▶ Power consumption in sleep mode 12V, 2mA
- ▶ Power consumption in card-reading mode: 12V, 155mA



XENTIM

XENTIM™ is the terminal for low-value payments without PIN, in applications such as drinks machines and snack vending machines. Perfectly designed for its job, XENTIM is a robust allweather terminal that supports simple customer interaction and feedback.

Unique features

With a casing depth of only 100 mm, the compact XENTIM takes up very little space inside the vending machine.

▶ Cards, not coins

Customers frequently mistake the card slot of a payment terminal for a coin slot. XENTIM handles this by including a small tray to catch coins. The tray is easy to reach, and saves the card reader from getting jammed.

▶ Water evacuation

The XENTIM is specially designed for outdoor integrations. Water evacuation holes on the front panel keep water away from the chip-card reader and out of the vending machine, and the internal PCBs are tropicalised.

Focus on the user

The interface design is simple and self-explanatory: cardholders lose no time wondering how to use the terminal, so transactions are quick and easy.

Display: up to 16 alphanumeric characters, enough to display the amount and a short prompt such as OK?

Keys: three clearly labelled, coloured keys for Stop, Information and OK.

Card Reader: a small white arrow on the card slot shows how to insert the card. The same white arrow is also present on chip cards.

Vending interface

Built in to a vending machine, XENTIM supports a range of transactions including top-up of prepaid cards, multi-vending, client payment confirmation and cancellation.

Secure transactions are guaranteed by the terminal's dedicated security processor and SSL encryption.

Terminal management

Manage your terminal park with XENTURION®, for:

- ▶ Secured remote software download
- ▶ Scheduling and parameter management
- ▶ Remote terminal support and diagnostics
- ▶ Remote key loading (RKL)

Care for the environment

Like all current Worldline products, the XENTIM is manufactured in line with RoHS2 & WEEE standards.

Specifications

Processor

- ▶ 2 x 32 bit ARM™ processor cores
- ▶ Hardware cryptographic accelerators

Memory

- ▶ 32 MB RAM, 32 MB Flash

Security

- ▶ 3DES, AES and RSA encryption algorithms
- ▶ DUKPT key management
- ▶ Additional security schemes available
- ▶ SSL v3.0

Approvals

- ▶ EMV 4.3 level 1 and 2
- ▶ CE, EMC
- ▶ EN60950

Communications

- ▶ Ethernet RF45 8P/8C (10 Mbit)
- ▶ External modem RJ11 6P/6C
- ▶ 2 SAM slots ID O

Peripheral ports

- ▶ 1 vending machine controller (RS232), also used for power supply
- ▶ 2 RS controllers (standard)

Operating conditions

- ▶ Temperature: operating -20°C to 70°C
- ▶ Storage -25°C to 70°C
- ▶ Humidity (non-condensing): operating 0-90% RH; storage 0-95% RH

Card interface

- ▶ Chip-card interface

User interface

- ▶ Display: monochrome, 1 line and 16 characters
- ▶ Stop, Info/query and OK keys

Size and weight

- ▶ Front panel: 105 x 105 x 100 mm (h x w x d)
- ▶ Weight: 400 g

Power supply

- ▶ Power adapter: 6.3-12 VDC
- ▶ Minifit (MDB): 40 VDC

Optional accessories

- ▶ External power adapter
- ▶ MDB connector and cable
- ▶ EVA-CVS integration kit



Additional features

Configuration kit

This kit is used to configure and diagnose terminals during development or after installation. It consists of a service unit with keypad, display, printer, and communication and power cables.

The Configuration Kit is not intended for use with the XENTEO.



Remote Terminal Management

XENTURION remote terminal management system for:

- ▶ Secure software download
- ▶ Scheduling and parameter management
- ▶ Terminal support and diagnostics
- ▶ Remote key loading

More options

- ▶ interface boards for PSTN, ISDN, WiFi, GSM/GPRS including external antenna.
- ▶ Interface boards can be added at any time by a certified technician



- ▶ Privacy shield for XENTEO: PCI PED compliant, easy to mount and integrate.





About Worldline

Worldline, an Atos subsidiary, is the European leader and a global player in the payments and transactional services industry. Worldline delivers new generation services, enabling its customers to offer smooth and innovative solutions to the end consumer. Key actor for B2B2C industries, with 40 years of experience, Worldline is ideally positioned to support and contribute to the success of all businesses and administrative services in a perpetually evolving market. Worldline offers a unique and flexible business model built around a global and growing portfolio, thus enabling end-to-end support. Worldline activities are organized around three axes: Merchant Services, Mobility and e-Transactional Services, Financial Processing Services. In 2012, Worldline's activities within the Atos Group generated (pro forma) revenues of 1.1 billion euros. The company employs more than 7,100 people worldwide.

worldline.com



About Atos

Atos SE (Societas Europaea) is an international information technology services company with annual 2012 revenue of EUR 8.8 billion and 76,400 employees in 47 countries. Serving a global client base, it delivers hi-tech transactional services, consulting and technology services, systems integration and managed services. With its deep technology expertise and industry knowledge, it works with clients across the following market sectors: Manufacturing, Retail, Services; Public sector, Healthcare & Transport; Financial Services; Telecoms, Media & Technology; Energy & Utilities. Atos is focused on business technology that powers progress and helps organizations to create their firm of the future. It is the Worldwide Information Technology Partner for the Olympic and Paralympic Games and is quoted on the NYSE Euronext Paris market. Atos operates under the brands Atos, Atos Consulting & Technology Services, Atos Worldline and Atos Worldgrid.

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