

# MOBILE RFID, DELIVERED.



The WORKABOUT PRO - RFID



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Millennium Technologies

PSION TEKLOGIX

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# THE WORKABOUT PRO • CAEN RFID READER

## The Efficiency of RFID, in Your Hands and Around the World

If you're looking for a company that offers state of the art mobile RFID solutions that increase efficiency and productivity, then you've found it. For over four decades, Psion Teklogix has been an innovator in mobile computing solutions around the globe. As a world leader in mobile RFID, Psion Teklogix now offers global organizations a technological competitive advantage, the **WORKABOUT PRO with CAEN UHF RFID Reader**.

Our WORKABOUT PRO Ultra High Frequency (UHF) device integrates the strength of the CAEN A528 RFID reader, powered by the Impinj Indy® R1000 chip, into a sleek and uniform mobile computer. In addition, this revolutionary design offers companies the flexibility to operate in the US (FCC part 15), European (ETSI EN 302 208) and Canadian (IC) regulatory environments, **creating the first multi-regional RFID mobile computer available for the North American market**. The WORKABOUT PRO UHF offers all of this, along with the flexibility, expandability and reliability of all WORKABOUT PRO devices.



### The Flexible RFID Solution from Psion Teklogix

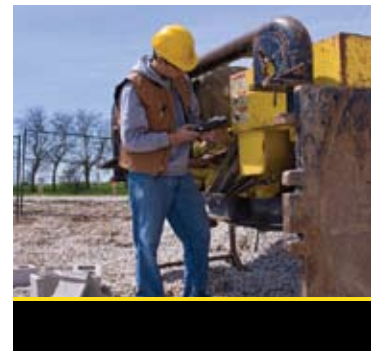
The WORKABOUT PRO with CAEN's UHF RFID reader offers companies an extremely scalable solution that can adapt to changing data collection needs. RFID readers are easily integrated into the WORKABOUT PRO – even in the field – and deliver maximum investment protection for customers that are evolving their infrastructure to RFID in a phased approach.

The RFID reader's power can be adjusted within the device, allowing a single unit to be easily configured for either contact or distance tag reading (up to 6' or more, depending on tag configuration). In addition, the device can be configured in the field to operate from 865.6 up to 928MHz, allowing the same hardware to be deployed throughout North America and Europe.

### WORKABOUT PRO UHF RFID SOLUTION Offers:

- An ergonomic device, with all RFID components integrated into the mobile computer for a single, sleek package
- RFID Reading, Barcode Scanning, and Wireless communications (802.11, Bluetooth) all on the same device
- Advanced Power Management, to achieve contact and distance reading, as well as longer battery life
- Supports EPC Global Gen 2 and ISO-18000-6C RFID standards, as well as multinational radio regulations
- Simplified integration, with developer resources, including a complete RFID Software Development Kit, available through Psion Teklogix' Teknet portal.

The WORKABOUT PRO UHF RFID solution is a part of Psion Teklogix' complete offering of RFID readers for Low, High and Ultra High Frequency RFID, to be used in closed and open-loop applications such as asset management, logistics, container tracking, baggage handling and many more.



**For more information visit us at [www.millennium-tech.com](http://www.millennium-tech.com) or call 973.492.1608.**

## RFID, simplified.

RFID solutions can significantly improve efficiency and accuracy while reducing labor requirements in a variety of applications. When teamed with other data capture technologies such as bar code scanning, Psion Teklogix mobile devices will deliver maximum flexibility for your operation.

The WORKABOUT PRO provides companies with an ideal RFID or RFID-ready product offering that can be adapted as applications change. This “do-it-yourself” upgradeability means that you can adapt and maintain your existing devices, instead of fighting for additional budget allocations as your needs evolve.

### The Bottom line benefits of integrating the WORKABOUT PRO UHF Solution into your operation:

- Install a single device, whether you need contact RFID reading, distance reading to 6 feet or both
- Install one device, even if you are rolling out across the USA, Canada and Europe
- Install one device, whether you need RFID today or in the future.



All of this makes the Workabout Pro the simple and effective UHF RFID solution that can be rolled out into your operation, and allows you to reap the benefits of RFID Technology today!

### The WORKABOUT PRO can be used in many applications including:

Warehousing & Distribution



Automotive



Healthcare



Government



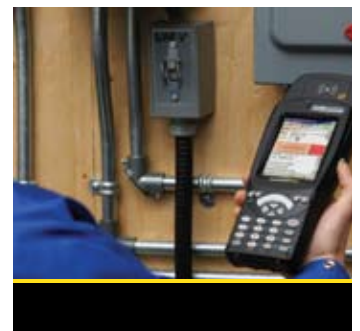
Field Service



Transportation



Manufacturing & More



Contact your Psion Teklogix Account Manager today to find out more about adding the WORKABOUT PRO UHF RFID Solution to your operation, or visit [www.millennium-tech.com](http://www.millennium-tech.com) to find out more!

# \*WORKABOUT PRO with passive UHF RFID Reader Specifications



## MODEL VARIANTS

- WORKABOUT PRO C – Model 7527C-G2
- WORKABOUT PRO S – Model 7527S-G2

## PLATFORM

- PXA270 520 MHz, 32 bit RISC CPU
- 256 MB Flash, 128 MB RAM

## OPERATING SYSTEM

- Microsoft® Windows® CE 5.0
- Microsoft® Windows® Mobile® 6 Classic, Professional

## WIRELESS COMMUNICATIONS

- Optional expansion modules for:
  - 802.11b/g Compact Flash Radio operating in the 2.4GHz band
  - 802.11a/b/g Compact Flash Radio with integrated antenna operating in 2.4GHz and 5GHz bands
- GSM/GPRS EDGE (via expansion interface) Quad Band - 850/900/1800/1900 Voice and Data
- UMTS/HSDPA (via expansion interface) Triple band, 850/1900/2100MHz Voice and Data
- Integrated Bluetooth® class II, V 2.0 + EDR
- Note: 802.11 b/g, GSM/UMTS, and Bluetooth® are available simultaneously
- Note: All expansion modules are available factory configured or user installable

## BARCODE APPLICATIONS

- Optional ID laser scanning expansion modules in standard range, long range, and auto range configurations
- Optional 1D linear imager expansion module
- Optional 2D area imager expansion module
- Optional bolt-on pistol grip
- Note: All expansion modules are available factory configured or user installable.

## RFID UHF MODULE

- CAEN A528 reader inside (Impinj's Indy™ R1000 Reader Chip)
- Multi Regional Programmable Frequency
- Output power: 0 to 500mW (27dBm)
- Power step control: 10mW, 25mW, 50mW, 100mW, 200mW, 300mW, 400mW, 500mW
- Consumption: 1000 mA
- Serial link on the 100 pins expansion interface
- Antenna: Integrated, Linear polarization
- Tag Protocol: ISO 18000-6C, EPC Class 1 Gen 2
- Packaging: Multipurpose End Cap

## USER INTERFACE

- Color touch screen display
- 9.144 cm (3.6 in) diagonal
- Full VGA 480 x 640 resolution
- Transflective, portrait mode TFT adjustable backlight
- Sunlight readable (for outdoor use)
- High reliability LED backlight
- Touchscreen (standard)
- Passive stylus or finger operation
- Signature capture
- Keyboards
- Full alpha-numeric (C model)
- Numeric (S model)
- Ergonomically enhanced for ambidextrous one-hand operation
- Backlit, high durability hard-capped keys
- Indicators & Controls LED indicates battery charge status
- Audio
- 90 db mono speaker
- Mono microphone
- 86 db beeper

## PROGRAMMING ENVIRONMENT

- HTML, XML
- Psion Teklogix Mobile Devices SDK
- Hardware Development Kit (HDK)
- .NET and C++ programming using Microsoft® Visual Studio® 2005
- Java programming supporting JDK 1.2.2 or higher
- Standard Protocol APIs Windows® sockets (CE.net)
- Psion Teklogix RFID SDK

## APPLICATION SOFTWARE

- Internet Explorer® 6.0 incl with Windows® CE 5.0
- Internet Explorer® Mobile incl with Windows® Mobile® 6
- Windows Mobile Device Center
- Phone dialer and Personal Information Manager (PIM) incl. with Windows Mobile® 6 Professional
- Unique Psion Teklogix Voice Dialer and Contacts Manager incl. Windows® CE 5.0
- PTX Connect VoIP
- Optional OpenTekTerm terminal emulation software, supports IBM 5250, IBM 3270, HP2392, ANSI and TESS
- Mobile Control Center (MCC) device management

## EXPANSION SLOTS

- One SD/MMC memory card slot – user accessible
- End-cap USB Interface supports GPS expansion module.
- 100-PIN expansion interface: supports PCMCIA (type II), GSM/GPRS EDGE and other third-party expansion modules

developed using Psion Teklogix WORKABOUT PRO Hardware Developer's Kit.

- Flex cable interface with robust connector : supports scanner (serial) and imager (USB) modules
- One Type II CF Card Slot

## EXTERNAL CONNECTORS

- One tether connection with full RS232 and USB On-The-Go (USB 1.1) functionality
- One Low-Insertion Force (LIF) docking connector
- DC Power Jack

## POWER MANAGEMENT

- Optional 3.7V, 3000 mAh high capacity battery pack
- Optional 3.7V, 4000 mAh super high capacity battery pack
- Advanced smart battery with gas gauge
- 3 power source options:
  - Runs off battery, AC power, or automotive power supplies
- Built in charger
- Rechargeable, user replaceable backup battery pack

## ENVIRONMENTAL

- Withstands multiple drops from 1.8 m (6 ft) or 26 drops (on 12 edges, 8 corners, 6 faces) from 1.5 m (5 ft) to concrete while powered on and configured with accessories such as WiFi radio, scanner / imager and pistol grip.
- Rain/Dust: IP65, IEC 60529
- Operating temperature: -20°C to +50°C (-4°F to 122°F)
- 5%-95% RH non-condensing
- Storage temperature: -40°C to +60°C (-40°F to 140°F)
- ESD: +/- 8kVdc air discharge, +/- 4kVdc contacts

## PHYSICAL DIMENSIONS AND WEIGHT

- WORKABOUT PRO C: 223 mm x 75/100 mm x 31/42 mm (8.775" x 2.95"/3.94" x 1.22"/1.65")
- WORKABOUT PRO S: 200 mm x 75/100 mm x 31/42 mm (7.87" x 2.95"/3.94" x 1.22"/1.65")
- Weight (w/o battery pack): WORKABOUT PRO C: 455 g (1 lb) WORKABOUT PRO S: 390 g (0.859 lb)

Product is RoHS compliant

\*Specifications are subject to change without notice

\*\* Not all applications are available. Please contact a Psion Teklogix representative for more information\*\*

## CAEN RFID:

CAEN RFID is a leading Italian company in the design and production of RFID UHF readers and tags. A totally in-house expertise on Radio Frequency electronics and related Software, together with its active involvement in the EPC Global, AIM Europe and ETSI work groups have allowed CAEN RFID to provide readers and tags which are in the vanguard of existing technology. For more information, please visit [www.caen.it/rfid](http://www.caen.it/rfid).

## Impinj:

Impinj®, Inc. is the world's leading technical innovator in developing UHF Gen 2 RFID solutions for both item-level and supply-chain tagging. Impinj draws on its technical expertise and industry partnerships to deliver a wide range of products and solutions, comprising high-performance tag chips, readers, reader chips, software, antennas and systems integration. Impinj's products provide unprecedented performance, integration, and cost effectiveness to a global customer base in applications across numerous vertical markets, including inventory management, asset tracking, authentication, and serialization. For more information, visit [www.impinj.com](http://www.impinj.com).



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