



RFID Labels for Race Timing

Description

PowerT battery-assisted, passive (BAP) labels are used by race timing technology providers and race organizers to reliably and affordably track runners. PowerT is a UHF EPCglobal Class 1, Generation 2 label that provides high performance even when it is on the runner's bib, in close proximity to the body.

The Disposable, On-the-Bib™ RFID Label

Designed for timing and tracking runners in events ranging from large prestigious marathons to local 5-10K runs, PowerT conveniently attaches to the runner's bib, and, despite its proximity to the runner's body, provides readability by antennas from up to five meters in both of the preferred antenna setups: mats or gantries. Reliable and disposable, the PowerT On-the-Bib™ label eliminates the less convenient application of disposable shoe tags and the bothersome task of collecting tags after an event.

Features	Benefits
Gen. 2 compliance	Supported by Gen. 2 infrastructure and off-the-shelf hardware and software
Designed for race timing	Label performs reliably from high ranges even when it is on the runner's bib
UHF RFID	Operates in the 860-960 MHz spectrum
Environment-friendly battery	Power of active RFID without the chemicals or heavy metals of an active tag battery
Printable battery	Form factor and affordability of thin and flexible label perfect for attaching to bib
Integrated power source	Eliminating the need to collect energy from the reader leads to improved backscattering and near 100% read reliability

PowerT™ Specifications

Label name	PowerT
Application	Race timing
Dimensions	140 x 75 mm
Operating frequency	860-960 MHz
Protocol	EPCglobal Class 1, Gen 2 ISO 18000-6C
Memory	96-bit EPC memory 720-bit on-chip user memory 64-bit tag unique identifier
Power source	Integrated proprietary disposable battery
Antenna	Planar printed antenna
Life expectancy	1 year (at room temperature)
Environmental	Operating temperature: -20÷ C to +60 ÷ C Humidity: 5%-95% non-condensing Water resistant



About DilinxRFID

With the exclusive partnership with PowerID and Power Paper, DilinxRFID incorporates the world-leading Battery-Assisted Passive ("BAP") and Printed Battery Passive ("PAP") technologies into a new generation of RFID tags. Our target applications include: Personnel Tracking, Container Tracking, Cold Chain for food and medicines, and general logistics in challenging environments.

For more information, visit www.DilinxRFID.com



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