PDC700B
RFID Handheld Reader

IDENTIFY • TRACK • ANALYZE

TeraHop's PDC700B is a self-contained RFID handheld reader and wireless communications device that collects, stores, and transmits the identity of your equipment, vehicles, inventory, and people. PDCs are compact and fully ruggedized for the harsh environments of construction sites, industrial yards, and fueling vehicles.

Operation

The PDC700B is designed for demanding applications requiring a rugged, easy-to-operate RFID handheld reader. After making a read, the PDC700B relays the identity and time to a central database for display and analysis. Use PDC700B data to:

- Accurately track fuel dispensed to equipment and vehicles
- Reduce errors from manual data collection and transcription
- Track employee attendance
- Track flow of patrons through a facility or event
- Inventory items stored indoors or outdoors
- Check portable tools in and out

With a powerful rechargeable battery, the PDC700B has read range to rival much larger fixed readers, and can wirelessly send data further than readers with 802.11 or Bluetooth. Operators will find the PDC700B a breeze to use in the field, and can attach the handheld to a wrist strap, lanyard, or retractable cable.

TeraHop Network Overview

PDCs use TeraHop's unique message hopping technology to expand site coverage while maintaining low power consumption. This enables PDCs to penetrate into buildings, tunnels, and other environments that are typically challenging for radio reception.

TeraHop Network Systems use a portable Gateway Router (GR) to collect data from PDCs. A GR is small and rugged, and can be taken onsite in any vehicle, or permanently affixed to a site structure. It collects and stores all data accumulated from PDCs, then transmits the data to a secure central database via a wireless or wired connection. The TeraHop Server can share site-wide data to popular software applications, providing visibility to any connected device, on or off site.

About TeraHop Networks

TeraHop Networks is a leading manufacturer of asset monitoring and portable networking devices. Companies in the construction, transportation, manufacturing, emergency response, and mining industries use TeraHop's patented, subscription-free technology to cut costs and reduce waste by monitoring the location and condition of their mobile assets and personnel. TeraHop products are ready to run right out of the box, without satellite, cellular, Wi-Fi, or cabled network communication infrastructure. Power options for TeraHop products include battery, vehicle, and line power.

TeraHop provides hassle-free, reliable, and affordable asset management hardware that integrates with popular maintenance, monitoring, and tracking software platforms. Privately held, TeraHop has offices in Seattle, Washington and Alpharetta, Georgia.

FEATURES

- Simple reader with 1-button operation
- Long-range data transmission
- Rechargeable battery
- Rugged for harsh environments
- Ready to use out of the box
- No cell or satellite subscription

USES

Managers in heavy construction, fleet operations, logistics, and facilities can use the PDC700B RFID Handheld Reader for mobile tracking of:

- Fuel dispensed to heavy equipment and vehicles
- People, including time & attendance and patron flow management
- Tools brought to job sites
- Inventory and logistics

PDC700B
Technical Specifications

Physical Characteristics

Description: Rugged RFID handheld reader, high-impact plastic case with finger grips, internal RFID antenna and data transmitter

Dimensions: 6.75" length, 2.75" width, 1.6" height

Weight: 12 ounces

Trigger: Single press to read RFID tag

Indicator Lights: TeraHop network status, tag read, charging, low battery

Speaker: Audible read indicator

Attachments: Recessed pin holder for wrist strap, lanyard, or retractable cable

Power: Rechargeable battery pack with wall charger, protective rubber plug for power inlet

Memory: Stores approximately 2,000 read events

RFID Reader

Frequency Support: 862 - 955 MHz UHF

Protocols: EPC C1G1, EPC C1G2 / ISO 18000-6C, ISO 18000-6B

Read Distance: Up to 18" (tag dependent)

Battery Life: Approximately 500+ reads at maximum range

Environmental Performance

Operating Temperature: -25°C to +55°C (-13°F to +131°F)

Storage Temperature: -40°C to +85°C (-40°F to +185°F)

Protection: Highly resistant to dust, moisture, humidity, marine air, shock, and vibration

RF Network Characteristics

Transceiver: Patented data transfer radio, wake on demand

Frequency/Range: 2.4 GHz, license-free globally

Antennas: Internal

Hopping: Wireless routing up to 16 hops

Regulatory Compliance: FCC Part 15C, Class B

Firmware: Wireless over-the-air setup, customization, and updates

Security: Available shared key encryption

Companion Products

To complete your Portable RFID Tracking System:

- TeraHop RFID Portal
- Portable Data Collector as data repeater
- TeraHop Gateway Router
- TeraHop Mini Gateway Router
- TeraHop Gateway Server and software libraries
- RFID Tags