



PDC710A

Battery-Powered RFID Portal

IDENTIFY • TRACK • ANALYZE

TeraHop's PDC710A is a self-contained RFID reader and wireless communications device that collects, stores, and transmits the identity of your people, inventory, equipment, and vehicles. The PDC710A is compact, highly portable unit you can easily mount on a wall or pole, or stand on a table or floor.

Operation

The PDC710A is designed for demanding applications requiring a standalone, portable, hands-free RFID reader. After detecting a tag within range, the PDC710A relays the identity and time to a central database for display and analysis. Use PDC710A data to:

- 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 PDC710A has read range to rival the leading fixed readers, and can wirelessly send data further than readers with 802.11 or Bluetooth. Operators will find the ultra-portable PDC710A a breeze to install and use, whether mounted in a fixed or temporary location.

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

- Passive portable RFID reader
- Detects tags to 30' or more
- Mount to wall or pole, or stand on flat surface
- Rechargeable battery
- Long-range data transmission
- 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 PDC710A RFID Handheld Reader for mobile tracking of:

- People, including time & attendance and patron flow management
- Tools brought to job sites
- Inventory and logistics

PDC710A

Technical Specifications



Physical Characteristics

Description: RFID portal, steel-framed plastic case with internal RFID antenna and data transmitter, battery charger compartment

Dimensions: 26.5" height, 12.0" width, 2.5" depth without stand or mounts; 28.2" height, 16.5" width, 2.5" depth with adjustable stand

Weight: 12 pounds without stand

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

Speaker: Audible indicator of successful read

Controls: RFID read range, RFID power button, speaker volume

Mounting: Optional accessories include floor/table stand, pole mounting straps, wall mount ears

Power: Rechargeable battery pack with wall charger

RFID Reader

Frequency Support: 862 - 955 MHz UHF

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

Read Distance: Up to 30' (tag dependent), adjustable range

Battery life: 8+ hours with average use

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



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