



Portable Data Collector

Portable Data Collector PDC300a for the First Responder

General

TeraHop's Portable Data Collector (PDC) is a self-contained wireless communications device for incident scene management and resource monitoring. Specifically, the PDC is designed to be worn by a First Responder. It is the size of a deck of cards, and can be worn either in the pants pocket or placed in a holster. A PDC can also be mounted on assets, such as an exhaust fan, door chock, or ladder truck.

Operation

The PDC enables automatic notification to the Incident Commander (IC) of the arrival of First Responders and resources (units and equipment) to an incident scene.

The PDC is assigned to each First Responder and is programmed with vital information, including identity, qualifications, and medical information. The PDC communicates with the network indicating a First Responder's presence or the presence of an asset (truck or equipment). If contact is lost, the Incident Commander (IC) is notified so he can take the appropriate course of action. If a First Responder is motionless for two (2) minutes (programmable), the IC receives an audible distress signal.

The PDC also acts as a wireless router, automatically relaying messages from other PDCs to greatly extend the range of the system.

Incident Management System (IMS) with Automated Accountability Overview

TeraHop's IMS is a unique wireless system that is made up of three (3) primary components: PDC, Gateway, and Portable Computer (PC). The IMS monitors the presence of First Responders, vehicles and equipment on the scene. The Gateway, the brains of the system, is mounted on the IC's vehicle. Lastly, the IC is provided a laptop PC to manage an incident. This device informs him of who is on scene, and provides data about each asset on scene to make task assignments. These components all work together to provide an "on-the-scene" wireless network. This ensures that the IC can communicate with the PDCs and manage incident resources through the PC.

About TeraHop Networks

TeraHop Networks is a leading manufacturer of asset monitoring and portable networking devices. We are passionate about developing advanced, wireless technologies that enable First Responders and Incident Commanders to better manage stressful, hectic and often life threatening scenes. We have over two dozen patents issued and 80 patents pending. TeraHop's products are ready to install "out of the box" without requiring line power, Wi-Fi networks or cellular connectivity giving companies a hassle-free, reliable and affordable way to integrate existing software and platforms and extend their current software investment. Privately held, TeraHop has offices in Seattle, Washington and Alpharetta, Georgia. For more information, visit <http://www.terahop.com>, email info@terahop.com, or call (678) 455-8844.

FEATURES AND BENEFITS

- The PDC sends messages to the Incident Commander (IC) automatically when a First Responder or asset arrives on scene.
- The PDC has no on/off buttons. It is always on and ready for use, 24/7, without user intervention.
- There is no recharging of the PDC batteries, which have a 2 year battery life with 30-day low battery alerts.
- The PDC does not replace the PASS device or PAR calls. It complements them.
- The PDC is almost indestructible. Note the impressive environmental performance specifications located on the back side of this brochure.

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Technical Specifications

PHYSICAL CHARACTERISTICS:

Dimensions: 2.4" x 3.6" x 1.2"

Weight: 6 ounces

Digital I/O: (1) one 16-pin serial configuration port

ENVIRONMENTAL PERFORMANCE:

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

Acceptable Storage Temperature:
-50°C to +105°C (-58°F to +221°F)

Recommended Storage Temperature: 30°C

Humidity: 100%, condensing

Shock: 4-foot drop on concrete without damage

Immersion: 30 minutes in water of 1m per IP-67

Vibration: 30g, Z axis

Salt Fog: ASTM B 117-07 (21 days)

RF CHARACTERISTICS:

Frequency/Range: 2.4 GHz, unlicensed (Globally)

Antennas: Internal

Transceiver 1: Proprietary wake-up and data transfer radio

Transceiver 2: Class 1 Bluetooth*

Hopping (Wireless Routing): Up to 16 Hops

Regulatory Compliance: FCC Part 15C, Class B

FEATURES:

User Available Memory: 64KB, EPROM

Shock Sensor: 5 levels, programmable- Min, Max, High, Medium, Low

Accelerometer, Motion/No-Motion Sensor

Internal Magnetic Reed Switch

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