



# PTD/DRR6300

## Data and Tracking Devices for MeshTrack

**Personal Tracking Devices (PTDs)** are the small, ruggedized transmitters worn by emergency responders, public safety personnel and anyone else that needs to be accounted for. **Deployable Reference Routers (DRRs)** are devices placed around an incident to form an instant, ad hoc mesh network for integrated position location and data networking.

By simply turning on a DRR, a high-speed, broadband incident management solution is created to provide streaming video, command post collaboration and personnel tracking. DRRs create a path for broadband radio signals to enter and exit structures, while also providing a reference for PTD position locations. While using a PTD, first responders are tracked and they can also alert the command post if they need immediate assistance. Every DRR and PTD acts as a router/repeater, increasing the incident's network robustness and coverage.

The MeshTrack System enables users to leverage critical broadband data seamlessly – virtually any time and anywhere. Locate people and assets, stream live video of an incident to headquarters, or even shave precious minutes from a rescue. Whether inside, underground, or outdoors, the MeshTrack System delivers real-time information to detect, prevent, respond.

### **Instant 6 Mbps Burst Rate Broadband**

Clients get up to 6 Mbps burst rate for video and data. High-bandwidth applications, such as web browsing, imaging, telemetry and high-quality streaming video are just a few of the many services DRRs and PTDs enable.

### **Position Location**

When the PTDs and DRRs are combined with the Tactical Accountability Console, incident commanders can see where their people are anywhere within the MeshTrack network, even if they are indoors. The MeshTrack System will automatically and autonomously keep track of every PTD's location. This leaves the incident commander the freedom to focus on the incident while allowing the system to keep up with personnel whereabouts.

### **Create Peer-to-Peer Networks Anywhere**

Leveraging Motorola's mesh networking technology, DRRs and PTDs can form their own peer-to-peer

network – any time, anywhere. A high-speed broadband network will automatically form between devices, even in places where there is no network infrastructure. Incident responders can establish private and effortless group communications in even the most desolate circumstances.

### **End-to-End Industry Standard IP Support**

If an agency demands interoperability for its applications then the MeshTrack system's network is what they need. It supports end-to-end, standards-based Internet Protocol (IP), so that any IP based application works seamlessly within the network. No special modifications are required.

### **TAC Support**

The Tactical Accountability Console (TAC), consisting of MeshTrack location software operating on off-the-shelf laptops or tablet PCs, provides all tracking data and telemetry to incident command for immediate decisions.

### **Durable Devices**

The devices were tested to withstand the tough environment of the incident scene. More importantly, they were tested to withstand the harsh job of a first responder. When the incident heats up, the last thing they need to worry about is their equipment.

# Additional PTD/DRR Features

- PTDs have an alert button that is monitored remotely
- The alert button acts as a Power Button for fail safe alert monitoring
- PTD battery levels are monitored remotely
- The PTD and DRR turn themselves on so personnel don't have to remember to
- NFPA-rated carrying case adds increased durability and heat resistance to the PTD and DRR
- Uses Motorola's impres™ smart battery charging system
- The MeshTrack system offers a customized charger and power system that packs maximum power into minimum space

## RADIO CHARACTERISTICS

Protocol	2.4 MEA
RF Modulation	QDMA
Output Power	Up to 25 dBm
Receive Sensitivity	-85 dBm
Operating Frequency	2.4 - 2.4835 (2nd ISM Band)
Maximum Burst Data Rate	6 Mbps
Antenna Type	Internal, Omnidirectional 2.5 dBi

## PHYSICAL

Dimensions	3.39" x 1.94" 0.88" (8.61cm x 4.93cm x 2.24cm)
Weight	11 oz (including battery)
LED Indicators	Alert (PTD6300 only) and Power Level

## POWER

Battery Chemistry	Lithium-Ion impres™ Battery
Battery Life	4,350 mAh (6-8 hours of continuous use)

## ENVIRONMENTAL

General Certifications	FCC Part 15, RSS-210
Water and Dust Resistance	Tested to Meet or Exceed IP54
Blowing Rain	Tested to Meet or Exceed MIL-STD 810F
High Humidity Operation	Tested to Meet or Exceed MIL-STD 810F
Vibration (Sinusoidal and Random)	Tested to Meet or Exceed MIL-STD 810F
Shock	Tested to Meet or Exceed MIL-STD 810F
Operating Temperature Range	-40 to +80 degrees Celsius (without carrying case)

## CARRYING CASE

Outer Shell	Advance Ultra™
Thermal Barrier	Q-9™
Certifications	The materials meet or exceed NFPA 1971-2000 requirements

## SECURITY

Virtual Private Network (VPN)	Support for FIPS-140-2 compliant encryption (Motorola Multi-Net Mobility)
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## AVAILABLE OPTIONS

Spare impres™ Battery	NNTN6815
impres™ Smart Charger (Six-Pockets)	NNTN6816
Carrying Case (included with the PTD 6300)	FHN6853



Motorola, Inc. • 1301 E. Algonquin Road • Schaumburg, Illinois 60196 U.S.A.  
www.motorola.com/mesh • 1-800-367-2346

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