



# DRIVE EFFICIENCY AND COST SAVINGS INTO YOUR T&L OPERATIONS WITH MOTOROLA SOLUTIONS MC6X SERIES

## MC6X SERIES IN TRANSPORTATION & LOGISTICS



### THE CHALLENGE: ROUTE AND DRIVER INEFFICIENCIES

In transportation and logistics (T&L) operations, profitability is tied to driver and route efficiency. Any time drivers have to spend on administrative work detracts from the number of miles — and stops — they can make in a day. Without a real-time connection to business information, drivers need to pick up printed manifests that provide the details of the day's route at the start of the day, as well as complete paper forms in order to document proof of delivery (POD); overages, shortages and damages (OS&D) and more — and then enter that information into computer systems at the end of the day.

The inability to track the location of each and every vehicle in your fleet translates into route inefficiencies. Dispatch does not have the information they need to determine which truck can respond to a new customer pickup

request with the least miles driven, nor is the historical route information available to enable ongoing analysis and continuous improvement of routes. The resulting unnecessary miles traveled increases fuel costs, vehicle wear and tear and vehicle maintenance costs.

And the combination of low driver productivity and route inefficiency can create a need to hire more drivers and purchase more vehicles to keep pace with customer demands — driving capital and operational costs sky high.

To address these issues, you need to reduce the time drivers spend completing paperwork, instead of driving, and provide dispatch with real-time constant visibility into the whereabouts of all drivers and vehicles.

With the MC6X Series from Motorola Solutions, you can.

## THE SOLUTION: MAKE EVERY MILE WORTHWHILE WITH THE MC6X SERIES

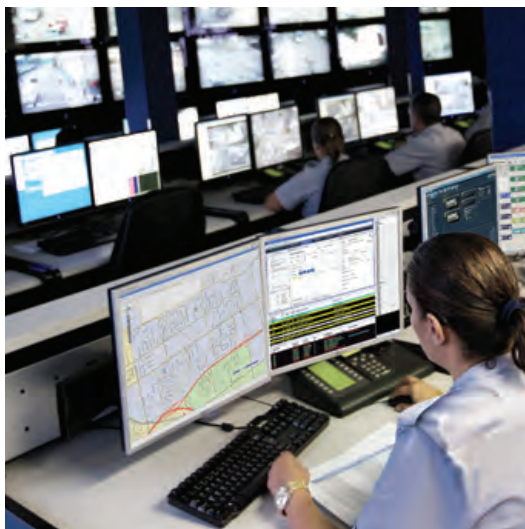
With the MC6X rugged yet compact mobile computer, your drivers have all the tools they need to redefine productivity in your T&L operations. This single highly sophisticated but easy-to-use and easy-to-carry rugged device helps you get the most value out of every minute your drivers spend in the field and every mile your vehicles travel by addressing the needs of your drivers, dispatch and IT.

- **Drivers.** For drivers, real time access to your business applications and automated data capture tools replace paperwork with real-time automated data entry. Real-time navigation helps drivers arrive on time — even if there is a traffic jam. And since this mobile computer doubles as a cell phone, drivers can call customers with delivery windows and are always available for dispatch by phone as well as text or email.
- **Dispatch.** With integrated GPS, dispatch can see the real-time location as well as historical route information for every truck in the fleet, providing the data required to create on the fly routes that minimize mileage.
- **IT.** Compatibility with Motorola's world-class security and management solutions plus all-inclusive support services addresses the requirements of the most demanding IT departments — securing the mobile computer and the networks it accesses, enabling low-cost management of the devices as well as keeping devices up, running and in the hands of the drivers.

## HOW WILL THE MC6X SERIES BENEFIT YOUR T&L OPERATIONS?

When your drivers carry the Motorola MC6X, the benefits touch your drivers, your vehicle fleet, your supervisors, your customers and your bottom line offering:

- **Improved driver productivity.** The reduction in paperwork allows the same number of drivers to cover more miles per day — and make more stops per day.
- **Reduced fleet costs.** The reduction in mileage reduces fuel costs and minimizes vehicle wear and tear. And the combination of increased driver productivity and vehicle utilization can reduce fleet size.
- **Reduced truck roll costs.** Minimizing mileage and enabling drivers to make more stops per day reduces the cost per truck roll, improving your profitability.
- **Improved customer service.** Your drivers arrive on time, every time. Dynamic routing allows dispatch to respond rapidly to calls for pickups throughout the day, while real-time navigation helps drivers find the fastest route — or an alternate route around traffic jams.
- **Reduced capital and operational mobility expenses.** The all-in-one MC6X takes the place of a mobile computer, cell phone, bar code scanner, camera and GPS, so you have fewer devices to purchase and manage.
- **Improved cash flow.** When drivers transmit real time proof of delivery, days and even weeks can be slashed from your order-to-cash cycle time, improving financial agility, the strength of the business and profitability.



When you put the MC6X Series in the hands of your drivers, your business has the real-time locationing information required to reduce costs, improve vehicle utilization and keep drivers on schedule. And advanced GPS technology improves the reliability and availability of your GPS-based applications by providing precise positioning as well as connectivity in challenging spots — including inside buildings and areas with dense foliage. Route history and real-time vehicle location information allows dispatch to create more efficient routes, including the ability to select the closest driver to respond to a new pickup request. Mileage is minimized, along with vehicle wear and tear. And drivers can find the fastest route to the next stop to stay on schedule — even if there is a traffic jam.

# THE MC6X SERIES

## ALL THE RIGHT FEATURES FOR T&L OPERATIONS

### Overhaul the cost-efficiency of your T&L operations with the comprehensive features in the Motorola MC6X

#### A rugged design for superior reliability in the field

Rugged meets compact to create the most rugged EDA design yet — period. The MC6X is tested for toughness and loaded with features that ensure dependable operation despite drops, exposure to the elements, spills and more.

The impressive list of rugged specifications includes:

- Both devices offer a military standard drop specification: MC65 offers 6 ft./1.8 m; MC67 offers 8 ft./2.13 m
- Ability to withstand 2,000 consecutive 1.5 ft./0.5 m drops
- IP sealing: The MC65's IP64 rating provides complete protection against dust and splashing liquids, while the MC67's dual IP rating — IP65 and IP67 — provides complete protection against dust as well as the ability to withstand jetting water from any direction and complete immersion in water.
- Patented monocoque housing for improved structural stability
- Patented spring-loaded accessory interface improves durability in the event the MC6X is dropped while connected to a peripheral, such as a magnetic stripe reader (MSR)
- Improved shock absorption provides extra protection for internal components and display

#### Fast and flexible cellular connectivity

Choose from the MC67's GSM 4G HSPA+ worldwide coverage or the dual WWAN software configurable modems that provide true network independence by allowing you to activate the device on whatever network(s) provide the best coverage for each driver — 4G HSPA+ and/or CDMA (Verizon only) for the MC67 or 3.5G HSPA and/or CDMA (Verizon or Sprint) on the MC65. Do some of your drivers travel through large territories where coverage is split between different networks? No problem. Simply activate dual WWAN models on both networks (requires data plans on both networks). And since you can purchase a single pool of MC6X devices that can be activated and re-activated on different networks as needed, purchasing and device management are simplified.

#### Anywhere anytime accurate GPS

Best-in-class GPS technologies in the MC65 and MC67 go the extra mile, providing connectivity in more areas — including challenging spots such as urban canyons and deep inside buildings — along with highly precise positioning. Improved accuracy and availability improves the performance of location-based applications for drivers and dispatch.

#### Advanced scanning technology

Motorola's most advanced imaging engine, the SE4500, puts superior bar code scanning technology in the hands of your drivers. The unique features of this scanner provide drivers with the rapid fire scanning they need to read the bar codes on the largest loads, quickly and easily, including:



- Laser-quality performance on 1D, 2D and DPM\* bar codes, allowing you to scan any bar code today and easily accommodate the new GS1 bar codes utilized in many manufacturing operations — without reducing scanning productivity (\* DPM is available in a specific configuration of the MC67 only.)
- Superior motion tolerance for constant scanning — no need to pause between scans
- Omnidirectional scanning for point-and-shoot simplicity — no need to align bar code and scanner window
- The ability to read even damaged and poor quality codes

#### Android fortified for the enterprise

While Android is constantly evolving and integrating new enterprise-class features, it still falls short of the features required for enterprise deployment — such as security and manageability. Motorola Solutions addresses this issue with Extensions (Mx). Mx adds a layer of features on top of the standard Android operating system — features that enable the creation of Android-based mobile computers that are truly enterprise-ready. The five categories of features boost security, mobile application and device management, data capture and the Wi-Fi wireless experience to enterprise-class levels.





### **A device with the intelligence to manage itself**

A series of sensors allow the MC6X to sense and act on the environment — no user action required. When no motion has been detected for whatever period of time you specify (such as five minutes), the device will automatically enter power-saving mode to conserve battery power. The display automatically adjusts to the available light to maintain visibility, regardless of whether drivers are in their vehicles, outside or in a building. When drivers enter a noisy or quiet area, ringer volume and vibration mode are automatically adjusted to make sure calls are not missed and people in the vicinity are not disturbed.

### **The power to handle the most demanding applications**

A mobile computer is only as useful as the applications it can support. The MC6X offers a high-powered platform that can support the most demanding applications of today and tomorrow. You get operating system flexibility — choose from Google Android™ 4.1 (*MC67 only*) or Microsoft Windows® Embedded Handheld 6.5 (*MC67 and MC65*). Our advanced processors are designed for mobility (*MC65*: 600 MHz multi-processor; *MC67*: dual core 1GHz). And you get plenty of memory to run the most demanding applications (*MC65*: 512 MB RAM/1GB Flash; *MC67*: 512 MB RAM/2 GB Flash or 1 GB RAM/8 GB Flash in WEHH models and 1 GB RAM/8 GB Flash in Android models — the most memory in this device class) plus a 32GB user accessible microSD card slot.

### **Capture more types of business intelligence — photographs, videos and documents complete with legible fine print**

The integrated autofocus color digital camera with external flash provides the flexibility to enrich your business data. Images can be captured in just about any lighting condition — from a geostamped photo for proof of delivery (POD) or proof of condition to documents\* with legible fine print that enable electronic recordkeeping for a 'greener' company.

### **Advanced voice technology — hear every word on every call**

Many mobile computers that offer voice and data are often built primarily for data, with less-than-stellar voice quality. We know that every call counts — but background noise out in the field can often wreak havoc with phone conversations. With our Dual-Microphone Noise Cancellation technology, all anyone will hear is your driver. Background noise — including wind, crowds, traffic noise and other conversations — is eliminated.

### **Crystal clear text and graphics**

Whether your drivers are viewing a delivery order, reviewing a photo for Proof of Condition or viewing a map to locate a nearby gas station, the best in class 3.5 inch VGA high-resolution touchscreen presents extra crisp information in any lighting condition.

### **Security you can count on**

One of the biggest concerns with any mobility solution is security. Motorola's Mobile Security Suite allows you to add the device-level protection you need to protect the data resident on the MC6X, the data in transit to and from the MC6X and your network resources. Add many of the same security features that are in your network to your MC6X devices, including a firewall, intrusion prevention, enforced authentication, data encryption and integrity monitoring. And if you need true government grade security, our Mobile Virtual Private Networks (MVPNs) bring wired-line security to wireless communications — without the typical performance degradation.

### **Easy centralized management of the MC6X and all peripherals**

Compatibility with leading Mobile Device Management (MDM) solutions provides your IT department with centralized remote control over Motorola and non-Motorola mobile devices and their peripherals, substantially reducing one of the largest costs associated with any mobility solution — day-to-day management.

### **Backed by industry-leading world-class service and support**

Once your paper processes have been replaced by a mobile computer, your ability to do business will depend on keeping those devices up and running and in the hands of your drivers. Our Service from the Start with Comprehensive Coverage sets the gold standard in post-deployment support by covering virtually everything — including accidental damage to internal and external components, accidental breakage and even the accessories that ship 'in the box' with the MC6X. So no matter what happens to your devices out in the field — you're covered.

(\* Document capture supported on WEHH models only.)

# TRANSFORM YOUR T&L OPERATIONS WITH REAL-TIME APPLICATIONS

With the MC6X Series, your drivers have all the tools they need to complete any task in a single, easy-to-carry and easy-to-use device. Instead of collecting information on paper that must be entered into the computer, drivers can act right on the spot, in real time, improving the efficiency and accuracy of:

- Proof of Delivery (POD)
- Proof of Condition (POC)
- Returns processing
- Payment processing
- Load tracking/dynamic routing
- Pickup processing
- Fleet tracking
- Signature capture

## CHOOSE THE OPERATING SYSTEM AND CELLULAR CONNECTIVITY OPTION THAT BEST MEETS YOUR NEEDS

A choice of models gives you the flexibility to choose the MC6X model that best meets the needs of your workers and your mobility strategy.



### **MC67: Android 4.1 with GSM (4G HSPA+)**

This model offers Android™ 4.1 (Jelly Bean), Google's industry-leading mobile operating system — currently the OS of choice in over 75 percent of the world's consumer smartphones. With GSM global coverage, this device allows enterprises to extend the simplicity and elegance of Android enterprise applications all around the world.



### **MC67: Windows Embedded Handheld 6.5 with GSM or Dual WWAN (North America Verizon CDMA only)**

Choose GSM or a dual WWAN software configurable modem that can connect on the fly to either the GSM 4G HSPA+ or CDMA EVDO Rev A Verizon network. The Dual WAN software modem is ideal for enterprises that have mobile workers in different areas that are better served by different WWAN networks or for workers who cover large territories that require coverage on both networks to enable workers to maintain connectivity wherever they may be. In addition, the flexible 1GB RAM/8GB Flash MC67 WEH model can be upgraded to Android (at a qualified Motorola Service Center).



### **MC65: Windows Embedded Handheld 6.5 with Dual WWAN (3.5G HSPA and CDMA EVDO Rev A)**

With the latest generation of Windows Embedded Handheld, this model is ideal for enterprises that have standardized on Windows applications. In addition, with global coverage allows enterprises to mobilize employees anywhere in the world with just one model, simplifying purchasing and management.

## END-TO-END ENTERPRISE MOBILITY SOLUTIONS FOR DEPLOYMENT SIMPLICITY AND SUCCESS

Every day, organizations of all sizes all over the world count on Motorola Solutions to maximize personnel effectiveness, improve services, and increase revenue potential. When you choose Motorola for your mobility solution, you get the peace of mind that comes with choosing an industry leader as your technology partner. Motorola offers the proven expertise and technology you need to achieve maximum value and a fast return on investment — as well as first hand experience in virtually every size organization in nearly every major industry. And our end-to-end solutions offer the simplicity of a single accountable source — regardless of the number of vendors involved.

Our comprehensive product offering includes: rugged and enterprise class mobile computers with extensive advanced data capture and wireless communications options; rugged two-way radios for always on voice communications; private wide area and local area wireless and outside the four walls — and to network multiple locations; comprehensive RFID infrastructure, including fixed, mobile and handheld RFID readers; a partner channel delivering best-in class applications; software solutions that enable centralized and remote management of every aspect of your mobility solution; and a complete range of pre-and post-deployment services to help get and keep your mobility solution up and running at peak performance every day of the year.

For more information on how you can transform your T&L operations with the Motorola MC6X Series, access our global contact directory at [www.motorolasolutions.com/contactus](http://www.motorolasolutions.com/contactus) or visit: [www.motorolasolutions.com/mc67](http://www.motorolasolutions.com/mc67) or [www.motorolasolutions.com/mc65](http://www.motorolasolutions.com/mc65)