

# ADVANCED 2-WAY MESSAGING DEVICE M90 MESSENGER

## Message Instantly. Message on the go.

### UNICATION M90 MESSENGER

M90 Messenger offers exciting capabilities and new possibilities in text messaging, wireless and business communication and can become an indispensable part of your personal communications needs.

M90 Messenger offers the latest in advanced two-way messaging features to message instantly and message on the go.

M90 Messenger operates on the next generation ReFLEX™ protocol and supports roaming between ReFLEX™ 2.7 and 2.6 networks.



## Features:

### USER INTERFACE:

- Menu-driven Icons to:
  - Send messages, view/manage/customize Inbox, News, Outbox, Folders, Address Book and Preferences
- Status Icons for:
  - Unread messages, alarms, message transmission, coverage, battery life, alert type, signal strength

### KEYBOARD & NAVIGATION

- A Full 39 key QWERTY keyboard
- 4 way navigation keys to easily compose, read or send messages
- Keyboard and Display backlighting for use in low light condition
- High resolution display
- 8 Line to 5 Line display zoom

### INDICATOR/ALERT

- Vibration Alert
- Choice of Alert Tones
- User configurable Private Time
- Two Independent Alarm Clocks

### AND MORE:

- Rugged Clamshell design
- Typically 10 to 12 days operation on a full charge<sup>1</sup>
- Rechargeable, removable 1050 mA-H Lithium Polymer battery
- Address Book with up to 200 contacts
- News and Information Services<sup>2</sup>
- Folders for Memos, Personal Information and Drafts

Notes:

1. If enabled by your service provider

### ADVANCED 2-WAY MESSAGING DEVICE

Model Type: M90 Messenger

ReFLEX™ Protocol

Includes: Address Book, QWERTY Keyboard, User-friendly Interface, News & Information Capabilities, Quick Text, Folders & Memos, Two Alarm Clocks, User-selectable Alerts, Long-lasting Lithium Ion Polymer Rechargeable Battery & Charger, Holster etc.



## Accessories:

### BACKUP & RESTORE PC UTILITY KIT

Whether accidental deletion or loss of your M90, regular backup of all data on the M90 ensures against loss of important contacts, emails and business data. The Backup & Restore Kit comes with a custom serial cable to connect your M90 to your PC and the Backup & Restore program on CD.

### SERIAL CABLE

The same serial cable supplied with the Backup & Restore Kit is available separately for those who want to leave a dedicated cable connected to their office PC, and carry a second cable on the road.

### BATTERY

Carrying a spare battery can save you from having to recharge at inconvenient times. Just pop a fresh battery in the M90, and you're up and running again.

### CHARGER

A second charger is a convenient option that lets you leave one charger permanently at the office or at home, and still have another always with you.

### HOLSTER

A additional M90 holster is available for those who want the convenience of a backup holster permanently attached in the car or other convenient place.

## Specifications

### RECEIVER

Frequency Band	.929-941 MHz
Channel Spacing	10kHz and 12.5 kHz
Bit Rate	1600, 3200, 6400 bps
Frequency Deviation	+/- 800 Hz and +/- 2400 Hz
Holster Paging Sensitivity	.90% clean message rate (CMR) at 14uV/m
Spurious Emissions	.Meets FCC 47 CFR part 15 requirements
1 MHz Blocking	.78 dBc
Image Rejection	.43 dBc
Spurious Rejection	.> 55 dBc typical beyond alternate channel
Selectivity	.50dBc @ +/- 25 kHz
Signaling	.4 level FSK
Simulcast Delay Performance (SDS)	.86% CMR @ 100 usec delay spread

### Conditions

- Path 1: No Doppler
- Path 2: Rayleigh 15Hz, 100 usec delay equal strength to path 1

### TRANSMITTER

Frequency Bank	.896-902 MHz
Channel Spacing	.12.5 kHz in 6.25 kHz steps
Bit Rate	.800, 1600, 6400 & 9600 bps
Signaling	.4 level FSK
Frequency Deviation	+/- 800 Hz and +/- 2400 Hz
Emissions	.Meets Narrowband PCS FCC part 24D
Frequency Stability	+/- 0.5 ppm
Power into Antenna	.1 Watt
Transmit EIRP	.330 mW, Vertically polarized (holster orientation)

### PHYSICAL

Size	.3.25" x 2.20" x 0.95" (82 x 55 x 24mm)
Weight	.3.5 oz. (100g)
LCD Resolution	.204 x 64 pixels
Viewing Area	.2.4" x 0.75" (60 x 20mm)
Operating Temperature	.32°F to 122°F (0°C to 50°C)
Storage Temperature	.4°F to 140°F (-20°C to 60°C)
Protocol	.ReFLEX 2.7, fully compatible with ReFLEX 2.6 networks

## CONTACT USA MOBILITY

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