

# MODAT-335

## Field Service Terminal



### Features

- 3.5" TFT sunlight readable LCD touch screen
- Marvell® PXA 310 624MHz CPU
- Built-in Windows® Embedded Handheld 6.5 OS
- Wi-Fi, Bluetooth and WCDMA/HSDPA or GPRS wireless technology
- Built-in GPS
- 1D Laser/2D Imager Scan Engine and Supports Mifare (ISO 14443A) Felica, ISO 18092 and ISO 15693 RFID reader and 5-megapixel Camera
- Optional Handle Grip
- Optional UHF multiple tag reader supports 3-meter reading distance



### Specifications

|                      | Model                           | MODAT-335-WB65-En-E-R11  | MODAT-335-GPRS-WB65-En-E-R11   | MODAT-335-1D-WB65-En-R11  |
|----------------------|---------------------------------|--|--|---|
| Display              | LCD Size                        | 3.5 TFT LCD (Sunlight Readable)  |  |   |
|                      | Brightness (cd/m <sup>2</sup> ) | 190 cd/m <sup>2</sup>  |  |   |
|                      | Max Resolution (HxV)            | 240(H) x 320(V) QVGA   |  |   |
|                      | Viewing Angle                   | 80/80/80/80 Deg.   |  |   |
|                      | Touch Screen                    | 4-Wire Resistive Type Touch  |  |   |
| System               | CPU                             | Marvell PXA 310 624MHz   |  |   |
|                      | Operating System                | Microsoft Windows Mobile 6.5   |  |   |
|                      | Memory                          | 256MB SDRAM  |  |   |
|                      | SD card                         | Support MicroSD Slot up to 32GB  |  |   |
|                      | Storage                         | Built-in 256MB Nand Flash  |  |   |
| Communication        | Wireless LAN                    | Wi-Fi 802.11 a/b/g/n   | Wi-Fi 802.11 a/b/g/n   | Wi-Fi 802.11 a/b/g/n  |
|                      | Bluetooth                       | Bluetooth 2.1+EDR  | Bluetooth 2.1+EDR  | Bluetooth 2.1+EDR   |
|                      | Modem                           | WCDMA/HSDPA supports UMTS 900/2100MHz & GSM 900/1800MHz  | GSM 900/1800 MHz   | NA  |
|                      | GPS                             | GPS w/internal antenna   | GPS w/internal antenna   | NA  |
|                      | Barcode                         | 1D/2D Imager Scan Engine   | 1D Laser Scan Engine   | 1D Laser Scan Engine  |
| Data Collection      | RFID                            | 13.56 MHz RFID support ISO 15693 and 14443A & MIFARE & FeliCa  | 13.56 MHz RFID support ISO 15693 and 14443A & MIFARE & FeliCa  | NA  |
|                      | Camera                          | 5 Mega Pixel CMOS Camera with LED Flash Light  |  |   |
| Indicators & Buttons | Hot Keys                        | 1 x Power Button<br>1 x Camera Button<br>3 x Barcode Trigger Buttons   |  |   |
|                      | LED Indicators                  | 1. Charging Status LED : Orange / Charging Full LED : Green<br>2. Wi-Fi enable LED : Green / disable LED : turn off<br>3. 3.5G enable LED : Green / disable LED : turn off | 1. Charging Status LED : Orange / Charging Full LED : Green<br>2. Wi-Fi enable LED : Green / disable LED : turn off<br>3. 2.5G enable LED : Green / disable LED : turn off | 1. Charging Status LED : Orange / Charging Full LED : Green<br>2. Wi-Fi enable LED : Green / disable LED : turn off |
| I/O Interface        | Audio                           | 1x1.5W Speaker build in  |  |   |
|                      | USB                             | 1 x Mini USB Client 2.0  |  |   |
|                      | Audio/Mic                       | Audio/Mic inx1   |  |   |
|                      | Expansion                       | 16 Pin Connector(RS232 / Battery Charging / USB Host / USB Client)   |  |   |
| Power                | Power Adapter                   | Input : 100V AC to 240V AC ~ 50-60Hz 0.2A<br>Output : 5 V / 2.6A   |  |   |
|                      | Battery                         | 3.7V 3000 mAh battery  |  |   |
| Environment          | Operating Temperature           | -10°C~50°C   |  |   |
|                      | Storage Temperature             | -20°C~60°C   |  |   |
|                      | Humidity                        | 5%~90% non-condensing  |  |   |
|                      | Drop Survival                   | 1.5 meter  |  |   |
|                      | Environmental Protection        | IP 54  |  |   |
| Physical             | Certification                   | CE / FCC   |  |   |
|                      | Dimensions (LxWxH) (mm)         | 218.5 x 81 x 46.2  |  |   |
|                      | Weight                          | 405 g  |  |   |

### Optional Accessory List

| Item         | Part No.            | Description  |
|--------------|---------------------|--|
| Cradle       | MODAT-300-CR01-R10  | Charging cradle with USB Client                          |
| Battery Pack | 31603-000017-RS     | 3.7V 3000 mAh battery                                    |
| 16-pin Cable | 32024-001500-100-RS | Connect to USB Host, USB Client and RS-232               |
| Handle Grip  | MODAT-335-GRIP-R10  | Removable handle grip can trigger 1D/2D barcode          |
| UHF Reader   | MODAT-335-UHF-R10   | Ultra high frequency (UHF) reader with 3000 mAh battery. |

### Packing List

| Item                     | Part No.              | Q'ty |
|--------------------------|-----------------------|------|
| Battery Pack             | 31603-000017-RS       | 1    |
| USB Cable                | 32001-000300-200-RS   | 1    |
| AC-DC Adapter            | 63040-330010-000-RS   | 1    |
| Headset                  | 30900-000003-RS       | 1    |
| Stylus                   | 72000-6051D0320101-RS | 1    |
| MODAT-335 Standard Pouch | 46037-000200-RS       | 1    |
| Handle Grip Pouch        | 46037-000100-RS       | 1    |



### Ordering Information

| Part No.   | Description  |
|--|--|
| <b>Windows® Embedded Handheld 6.5 Operating System</b> |  |
| MODAT-335-WB65-En-E-R12                                | The Windows® Mobile 6.5 based PDA with 3.5" panel, UMTS 900/2100MHz & GSM 900/1800MHz, GPS, WiFi, Bluetooth, RFID reader, 1D/2D barcode, 5M Camera, RoHS |
| MODAT-335-GPRS-WB65-En-E-R12                           | The Windows® Mobile 6.5 based PDA with 3.5" panel, GSM 900/1800MHz, WiFi, Bluetooth, RFID reader, GPS, 5M Camera, 1D barcode, RoHS                       |
| MODAT-335-1D-WB65-En-R12                               | The Windows® Mobile 6.5 based PDA with 3.5" panel, WiFi, Bluetooth, 1D barcode, 5M Camera, RoHS  |

## UHF RFID Reader

The communication frequencies used in radio frequency identification (RFID) technology range from 125KHz to 2.45GHz. The MODAT-335 features an optional ultra high frequency (UHF) reader. The MODAT-335:

- Detects a frequency range from 840MHz to 960MHz
- Allows a long reading range
- Is excellent for reading multiple tags
- Carries one 3000 mAh battery inside



Extra 3000 mAh battery can support UHF power consumption, providing longer working hours!



Vehicle Identification



Object or Personnel Tracking



Multiple Item Identification



Long Range Reading