

## Hand Held Ticketing M/C : (Model no. NWHHTEII)

### Overview:

**APPLICATIONS  
THAT  
eMPOWER**



ETM is a mobile handheld data capture, billing and Collection terminal to process and transmit information to host computers in real time. The simple user friendly design allows you to operate with easy and light weight and handy. Inbuilt thermal graphic printer high clarity graphic LCD display and keypad with good user interface. The Stored data can be uploaded to a PC via USB/RS-232 serial interface and GSM/GPRS wireless interface. The Device transfers Ticket data on GPRS to application Server at central Data center in both PUSH &PULL manners without any manual intervention. The PC software will be used for restoring all required MIS reports in the System.

#### 32 bit Processor



USB & RS232 Ports

#### Thermal Printer



Battery Compartment

#### GSM/RS232/USB



Bill Printing

#### Micro SD Card



SIM card Access

### Supporting Utilities:

- SDK with APIs

### Features:

Built-in 2inch thermal printer  
Prints Barcode, Logo ,Image  
Supports Four Different programmable Fonts  
30 Keys Elastomeric designed keypad  
Large bright graphical display  
Self-diagnostic features  
Optional – G.P.R.S., Wi Fi, Blue Tooth  
Compact and Comprehensive  
Fast-Intelligent-Versatile-Affordable  
Lithium-Ion rechargeable battery  
User programmable  
Easy paper loader  
Fast-Intelligent-Versatile-Affordable

### Application Areas:

E.T.M in Road transport  
Parking Management  
Retail outlet  
Police e- Challan  
Utility Meter Reading & Billing  
Tax Collection  
Field Data Collection  
LIC payment collection  
Receipt Printing  
Micro Finance  
Toll gate management.  
Ticketing

### Specifications:

CPU	Advanced Micro Controller based system with the latest hardware technology Micro Controller with 32 bit ( cortex arm core) STM 32F103 ZET6 Min of 64KB Flash Program Memory to 512KB byte. Min Clock speed of 12MHz to 70 MHz. Min 1 K RAM
Memory	a) Inbuilt minimum 8 MB DATA flash memory b) Minimum 2 Megabit RAM / FLASH c) Flash memory should be capable of retaining data without corruption for more than 10 year (data supporting this feature to be enclosed) d) Flash memory should be utilized for storing more than 10000 ticket Details with complete ticket information and up to 50 routes fare details and service details e) Additional 4 Gigabit flash for ticket data warehousing facility for minimum recent 1o lacks tickets
KEYPAD	a) 30 keys alphanumeric keyboard (including function /navigational key) with legends b) Keypad should be detachable and replaceable c)keys shall be in colors differentiating numerals functions etc d) Radium Keypad
Operating Firmware :	Embedded C

Printer	<ul style="list-style-type: none"> <li>A) Paper width 57mm</li> <li>B) Paper roll cage of minimum 30 mm diameter</li> <li>C) Printer shall support thermal paper of 50-60 GSM</li> <li>D) 384 DOT per link</li> <li>E) Ultra fast 2 inch thermal printer with minimum 60 mm/sec speed</li> <li>F) Easy paper roll loading mechanism, without using paper-feed-key</li> <li>G) Transparent paper cover</li> <li>H) Paper Over sensor</li> <li>I) Paper cover open sensor</li> </ul>
Interface/Connector	<ul style="list-style-type: none"> <li>a).RS-232 (RJ11 Connector for console / Serial port)</li> <li>b).USB Device (Type B)</li> <li>c).Micro SD Card holder for extendable up to 2GB memory</li> </ul>
Optional	<ul style="list-style-type: none"> <li>a) Customized Software</li> <li>b) Wi-Fi /Blue tooth</li> <li>c) GSM/GPRS &amp; SAM Slot</li> </ul>
Power Adaptor	<ul style="list-style-type: none"> <li>A) AC input from 100v, 50-60Hz</li> <li>B) Charger should have capacity to charge the battery fully within 3 hours</li> <li>C) Charger shall be covered under warranty during contract period</li> </ul>
Battery	<ul style="list-style-type: none"> <li>a) Minimum 7.4V,2600 MAH Li-ion /Li-polymer internal battery with Quick rechargeable in-built charger with over-charge /over-voltage /over current protection capable to charge fully within 3hours</li> <li>b) CHARGING and BATTERY FULL indication display in machine</li> <li>c) Minimum of 300 full recharge LIFE-CYCLE for BATTERY</li> <li>d) Capable of operating at least 8 hours in operation mode or ,72 hours of sleep /power save mode, per signal charge with real time data transfer and smart card read &amp;write facility</li> <li>e) Capable to print at least 2500 to 3500 tickets per single charge</li> </ul>
Enclosure	ABS+PC
Temperature	Operating : 0degree C to 55degree C
Humidity	95% RH non condensing
R.F.I.D	<ul style="list-style-type: none"> <li>a) Inbuilt contact less smart card reader</li> <li>b) ISO 14443A, Type A &amp; B,Mi Fare as well as Dis fire complaint</li> <li>c) Read /Write capability</li> <li>d) Reading range at least 50mm</li> </ul>
Dimensions in mm	75mmX225mmX40mm
Weight	600 grams with battery and Paper Roll