



## The Wireless Edge **Astra** Mobile Data Terminal

wireless edge

The Astra Windows CE driver terminal provides dispatch, navigation and card processing for taxicabs. It has every dispatch feature that your drivers require to manage their work and Provides navigation with voice and visual turn by turn directions. Its bright color screen shows dispatch information and navigation directions alternately with the touch of a button. Astra's large intuitive buttons makes it easy to operate for novice and veteran drivers alike.



Astra has a Driver terminal head with integral GPS receiver and antenna and Wi-Fi (802.11). It also has a Peripheral Unit (PU) that provides 3G/EDGE/GPRS cellular (upgradeable to 4G) and ports to connect to your meter, back-seat card processing terminal, camera and other devices. The PU has 2 Host and 1 OTG USB ports, 4 serial ports (8 optional) and meter and emergency digital inputs and 2 outputs. The PU has a small compact enclosure with convenient mounting holes for it to be easily placed in the best location in the taxicab.

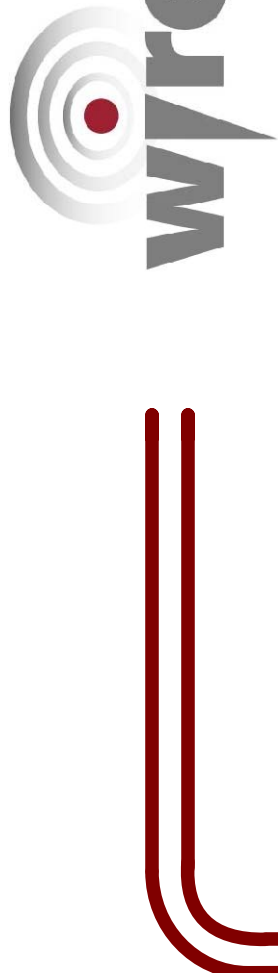
Astra has been built for the future to accommodate new devices and capabilities that you may require in your taxicabs.



### **Astra** Features

- ✓ Interfaces to smart meters, thermal receipt printer, back-seat passenger terminal, camera.
- ✓ Astra works with **Vista** seamlessly with end-to-end integrity.
- ✓ Supports the Hypercom L5300 back-seat passenger terminal for customers to swipe cards and enter tips and display advertising.
- ✓ Provides 3G/EDGE/GPRS cellular for fast and accurate communications and processing of card transactions.
- ✓ Provides data communications coverage with GPS across your service area and on long-distance trips.
- ✓ Use Astra with Vista transaction processing software to rapidly process credit, debit, private label, gift and corporate card transactions.
- ✓ Use electronic signature on back-seat passenger terminal or print a receipt for Signature.
- ✓ Pre-authorize long trips such as out of town fares.
- ✓ Advertise on back-seat passenger terminal; load ads with integral Wi-Fi (802.11).
- ✓ The 48-channel GPS receiver with -163 dBm tracking sensitivity provides rapid, accurate locations to record fare pickup and drop-off times and locations and validate driver requests such as NOSHOW and CALLOUT.
- ✓ The Autobook function books drivers when they log in and immediately on changing zones when driving and on meter off.
- ✓ Connect Astra directly to a smart meter to get fare details to send to dispatch as part of meter off message and print receipts for cash and credit card payments.
- ✓ Disable and enable meter as part of fleet management.
- ✓ Record driver trip logs with pick-up and drop-off time and location for cash and dispatch fares
- ✓ Built in camera can provide driver identification and limited emergency pictures
- ✓ More frequent reporting of GPS position in Emergency mode.
- ✓ Quick release to prevent theft.

**WIRELESS INTELLIGENCE FOR TAXIS AND PARATRANSIT**





## Astra Navigation

- ✓ 2D or 3D view
- ✓ Locate by address or phone #
- ✓ Voice turn by turn directions with street name
- ✓ Points of Interest – Hotels, gas stations
- ✓ Shortest Distance
- ✓ Do not use Toll Roads
- ✓ Automatic Reroute
- ✓ Landmarks and Landforms

## Astra Specifications

- ✓ Operating System      Microsoft WinCE 6.0 and .Net 3.5
- ✓ Processor                Samsung S3C6410 ARM11 800MHz
- ✓ Memory                  4 GB NAND Flash ROM, 256M SDRAM
- ✓ Screen                    7" Color TFT LCD, 16:9 Aspect Ratio, WVGA (800 x 480), Contrast 200:1, LCD Backlight
- ✓ Touch Screen            5-wire Resistive for long life and reliability in taxi environment
- ✓ Peripheral Unit          Processor: ARM9 80MHz, 528K Flash, 128K RAM
- ✓ GPS                        48 Channel, -163 dBm tracking sensitivity, <35 seconds first time to fix on cold start
- ✓ Cellular                  Internal 3G/EDGE/GPRS modem; upgradeable to 4G
- ✓ WiFi                        Integral 802.11 b/g
- ✓ Camera                    Built in; Wide Angle (154°), with Infrared flash for night pictures
- ✓ Speaker                    Built-in 3W with audio out for external speaker
- ✓ Audio/Video              Headphone - 3.5mm mini audio jack, Audio and Video inputs
- ✓ External Storage        Slot for SDHC card to 16GB
- ✓ USB                        2 Host USB, 1 Client USB
- ✓ Serial Ports              4 (9 Optional) for Back-Seat POS Terminal, Meter, Receipt Printer, Mag-Swipe
- ✓ Navigation                Voice and visual turn-by-turn directions with map display
- ✓ Battery                    2 Built-in Li-ion batteries, 3500mAh, 3.7V & 1200mAh, 3.7V
- ✓ Audio In/Out             3.5mm Earphone+Mic + Card Reader (SD/MMC)
- ✓ Inputs / Outputs        Taximeter, Panic Button / Alert
- ✓ Input Power              9V to 33V DC; 1100 mA Normal, 10 mA Sleep
- ✓ Driver Terminal         7.6" x 4.7" x 1.75"; 188mm x 114mm x 35mm; 450g / 1.8lbs
- ✓ Peripheral Unit         6.3" x 4" x 1.5"; 160mm x 106mm x 38mm; 300g / 0.66 lbs
- ✓ Environmental            -14 to 140F, Storage -4 to 158F; -10 to +60 C, Storage -20 to +70 C, RH 5% to 90%

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