

GLOBETROTTER COMBO



## Universal Tri-Band WLAN | GPRS | GSM PC-radio Card



INCLUDES

GLOBETROTTER  
MOBILITYMANAGER

GlobeTrotter COMBO is the ultimate solution to provide high performance wireless functionality for Laptops, Notebooks, and handheld PDA's enabling users to make telephone calls, browse the Internet, send and receive e-mails and connect to the corporate server, from conference rooms and training centers and public hot spots such as airports, shopping malls, coffee shops and hotels.

The "Always-On" feature of GPRS lends itself to real time remote connectivity and is ideal for the synchronisation of handheld and mobile devices with the office or home computer. Using WLAN, the GlobeTrotter COMBO card reaches speeds up to 11Mbps, which opens up the world of high speed data applications such as video conferencing, video streaming, real-time data etc. Being tri-band, GlobeTrotter COMBO can be used on all WLAN and GPRS/GSM networks worldwide. Connect anytime, anywhere!



## FEATURES

- > Tri-band WLAN /GPRS/GSM card for use on networks worldwide
- > Provides GSM Voice capability as well as GSM and GPRS Data connectivity to mobile users
- > Provides WLAN high speed data (up to 11 Mbps) connectivity to mobile users, as well as GPRS/GSM data (up to 53.6 kbps) connectivity
- > Provides roaming between WLAN and GPRS/GSM networks
- > Compatible with nearly all popular notebook PC's and PDA's, equipped with Type II PC card slot and Microsoft Windows OS
- > Supports IPSec/IKE client software for end to end secure corporate data exchange and synchronisation over Wireless VPN
- > Future Proof-GPRS-Flash and WLAN-Image upgradeable technology ensuring the latest WLAN and GSM/GPRS functionality
- > The revolutionary and only one of its kind retractable antenna supports the technologies, GPRS tri-band and WLAN in the 2.4GHz band
- > Optional Accessories: Quality Headset; External GPRS tri-band antenna
- > 802.11 WEP encryption using 40 or 128-bit key and Wi-Fi certified WPA (802.1x and TKIP)
- > Supports EAP-SIM (3GPP TS 23.234) within the purview of 802.1x Authentication
- > The embedded SIM reader is provided with a related API Interface: PC SC-driver

## SPECIFICATIONS

- > WLAN Air Interface:
  - . Frequency Range 2.4-2.5 GHz band according to IEEE 802.11b High Rate, DSSS PSK modulator
  - . UE Tx Power Max 19.5dBm
  - . High speed packet-switched data: 11Mbps with Dynamic Rate Scaling to 5.5, 2 and 1 Mbps optimising range and throughput
  - . Provides connectivity to enterprise and public hotspots Wi-Fi infrastructure & in the Ad Hoc mode peer-to-peer connectivity
  - . Supports Distributed Co-ordination Function (DCF)
  - . Wi-Fi certified for interoperability and security
- > GPRS/GSM Air Interface:
  - . Tri-band operation EGSM 900; GSM 1800; PCS 1900
  - . UE Power Class 1 (1W)for 1800/1900 MHz bands and Power Class 4 (2W)for 900 MHz bands
  - . Packet-switched data:
    - > Multislot Class 10 GSM 05.02 (4 slots Rx, 2 slots Tx, 5 max active)
    - > GPRS Class B Type 1 MT
    - > Support for GPRS QoS traffic classes
  - . Circuit-switched data: 14.4 and 9.6 kbps
  - . GPRS session management (NSAPI) 7 connections
  - . SIM standards 3GPP Phase1,2,2+,CPHS
  - . SIM Application Toolkit release 98/99
- > Terminal Equipment Interfaces:
  - . Operating systems: Windows 98SE/ME/2000/XP
  - . The host will be fit with a single customised hardware driver to operate both the WLAN and the GPRS part for all supported OS
  - . 802.11b Ethernet Interface + serial PPP interface through UART for GPRS/GSM
  - . GPRS/GSM networks:
    - > AT Interface GSM 07.05, 07.07, ATD\*99#support over COM port, unimodem extensions
    - > Telephony support MS TM TAPI
    - > By virtue of the customised hardware driver it brings standard modem (COM-port) emulation for compatibility with typical terminal diallers and a COM-port which is commonly used for SMS and Phonebook
    - > ETSI Multiplexer for simultaneous calls and network coverage reports
    - > Separate virtual debug and tracing port through UART

## HARDWARE SPECIFICATIONS

- > Card Type:
  - . Extended Type II PCMCIA compliant to specification version 2.1; 16-bit PCMCIA Interface
  - . 3.3V card (A 5 V intolerant keying of the PC Card will be applied.)
- > External interfaces: Miniature external GPRS antenna connection, status LED per each
- > Microphone/speaker 2.5mm standard mini jack
- > SIM card interface: Low profile, 6 contact connector on topside of card, supporting plug-in 3V and 1.8V 2.5G SIM cards
- > Environmental operating temperature: 0 to +55 °C