

WiBORNE, INC.

Wireless Mobile 3G / WiMAX Router

The Wireless Mobile Communication Platform for Public Safety: Fire/Rescue, Law Enforcement, Telemetry / M2M, Landline Replacement, Mobile, Security, Municipalities, Defense, and Transportation

W3G-1000



WiBorne's W3G-1000 is a mobile/portable wireless communication gateway built for mission-critical applications with the industrial most integrated WLAN and WWAN solution for Enterprise, Mobile Hot Spots, and WISPs. The W3G-1000 turns vehicles into local area networks, providing truly mobile workers with all the benefits of being connected to the "corporate" network while working in the field.

Through the convergence of best LAN and WAN technologies, W3G-1000 is capable of multiple PCMCIA / MiniPCI / USB WAN bonding with Ethernet, 802.11/WiFi, 3G-3.75G, and WiMAX 802.16e infrastructures, authorized users are simply, securely, cost-effectively, and transparently connected to standard communications and collaboration applications via either secure end-to-end mobile IP with 802.11i, SSL or IPSec virtual private networks (VPNs). Users simply turn on their WiFi-equipped peripheral devices as well as ATM machines, retail point of sale terminals and mobile telemetry systems with the latest wireless data services from carriers for rapid deployment of hot spots anywhere around the world.

Deployed for challenging multi-users, multi-devices, multi-applications, and/or multi-network environments, the W3G-1000 leverages standards-based networking technology to provide a more effective approach to mobile broadband networking for workers on the road!



Applications: Landline Replacement, Telemetry/M2M, Mobile Fall-over, Portable Networks, Public Safety, Fire/Rescue, Law Enforcement, Municipalities, Broadcast, Defense, Public or Private Transit, Transportation.

Highlight Functions:

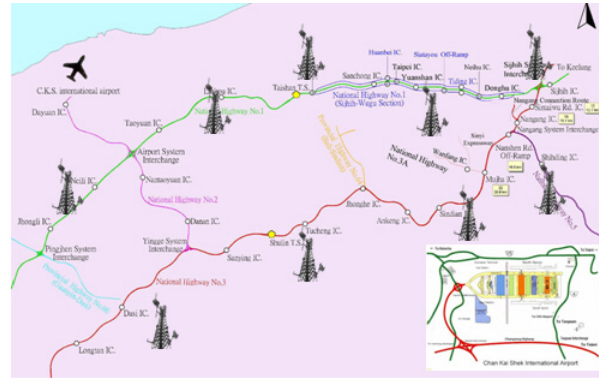
- MultiPlexing / Bonding / Trunk / Police Routing for Multi-WAN auto failover for redundancy and auto-reconnect
- 3G Technology for GSM /GPRS / UMTS / HSDPA / HSUPA: Option, Vodafone, Sony Ericsson, Novatel / Merlin, Siemens / Fujitsu, Huawei, GoHubs, Belkin, e-Tek, Peracom, AnyData, Sierra, AirPrime, Kyocera, ONDA
- WiMAX mobile protocol 802.16e (TBA)
- OnBoard AP that supports high power Atheros / Prism/Ralink radio for long-range base station
- GPS Sensors: Gude ADS, HBG, NMEA, Meinberg Funkuhren
- Unlicensed / licensed wireless modules for 900MHz, 2.4GHz, 3.5GHz, 3.65GHz, 4.9GHz, and 5GHz (optional)
- Integrated Real-Time Location Tracking Systems (RTLS) for WiFi devices: live vehicle tracking, theft recovery, truck-fleet tracking, asset management, remote site management, VoIP communications, auto-wardriving (optional)
- Network Management Systems with Programmable system for additional drivers / interfaces

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- **Authentication:** Firewall, SSL / IPSec VPNs, 802.1X, VLAN, 802.11i, VPN free client software
- **Authorization:** Guest/Role accounts and external Kerberos, RADIUS, LDAP
- **Accounting with Billing systems**
- **Auditing:** Client Session control, OS fingerprints detection, IP & bandwidth monitoring, network latency, server logs
- **Alert:** Intrusion Detection / Prevention Systems (IDS / IPS) as optional features
- PostgreSQL database with billions of transaction for accounts, alerts, logs
- Full Stateful packet filter (firewall)
- Centralized management with associated APs / CPEs
- Full Quality of Service (QoS) function for inbound / outbound, priority
- CARP Firewall failover and redundancy for backups
- Web based monitoring for WiFi / 3G usage
- Walled Garden with Single sign-on for redirection to customized pre/post/failure of authentication pages



**Kuo Guang Bus
Songshan Airport ↔ CKS Airport**



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Taipei Railway Sta. ↔ CKS Airport**



Protocols/Standards Supported

- Windows, PocketPC, MacOS, and most UNIX variants for VPN clients, VoIP, media devices.
- WLAN DHCP server / client / relay, DNS server, NTP time server, NAT gateway, log servers, HostAP
- Protocols: 802.11 (a, b, or g variants), 802.1x, GPRS, GSM, UMTS, HSDPA, HSUPA, 802.16e, ARP, DNS, NTP, DHCP, ICMP, TCP/IP, UDP, NetBIOS, SNMP V2, HTTP, HTTPS, IPSec, AES, IKE(ISAKMP) and ESP tunnel modes, IPv4, IPv6, DES, 3DES, Blowfish, SHA-1 hashes, MD5, SSH, LDAP, RADIUS, Kerberos V (Heimdal), SSL, SSL2, TLS, SSH2, PKCS12, X.509, OSPF, BGP, RIP, SIP/SER, H.323, VOIP, CARP, PFSYNC, OSPFD, BGPD, HOSTAPD.

Standard Hardware Specs

- Processor / memory: PCI Half-Size Celeron M 1.3GHz with 512MB DDR memory, or higher
- I/O Ports: Intel Gb Ethernet x2, RS-232 port x 1, VGA port x 1, USB port x 2, 3G PCMCIA Slots X 2, WiFi or WiMAX slot x 1, parallel port x 1.
- Power 110/220 volt AC or 24 volt DC for vehicle mount
- Storage Device: One 3.5" 40GB HDD or CF card
- LED: Disk activity indicator, power on/off LED indicator
- Dimension: 4.8 x 10.2 x 9.8-inch (122 x 260 x 248mm) (W x H x D)
- Construction: SPCC+Zn Plate Heavy-Duty Steel
- Certificates: CE/FCC