

# W1100 Wireless WAN Gateway

## For 3G wireless data services

New 3G and 2G data service offerings are increasing the use of cellular technology for a wide range of networking applications such as wireless back-up, primary access, and cell site management. The W1100 Wireless WAN Gateway provides reliable access to wireless data services for businesses and carriers. This cost effective solution is designed for easy setup and operation with an intuitive Graphical User Interface (GUI).

The wireless WAN interface is provided through a standard PCMCIA card installed in and managed by the W1100 and supports the newest 3G services. The Ethernet LAN interface provides standard connectivity to routers and other LAN equipment, allowing use of existing equipment.

To protect the network from outside intrusion, the W1100 contains a Stateful Packet Inspection firewall to identify and block attacks. The W1100 includes a Virtual Private Network (VPN) appliance for encryption, enabling secure access across the cellular network.

With cellular data services becoming less expensive and more accessible, there are many potential application uses. For businesses, applications such as retail, brokerages, and other financial-based businesses require the flow of information in real time. The business ceases to function when the network is unavailable. The W1100 is practical as a back-up to mission critical networking applications. It supports applications when the primary network fails, and the speeds are better than other options, such as a modem or ISDN line. The W1100 can also be used for primary access as a wireless router or as a pass-through device to an existing router. With inexpensive data plans and accessibility from almost anywhere, the W1100 enables mobile or temporary work locations to obtain network access easily, even when a wireline option isn't feasible.

Wireless carriers need to continually have access to and manage cell sites, ideally remotely. The W1100 improves cell site network performance and reliability through remote access for management over the cellular network. If a cell site goes down, a technician can log in from anywhere to begin diagnostics and reporting. This improves performance and technician efficiency, ultimately reducing carrier costs.



**Easy-to-use graphical interface**  
**Secure Internet firewall & VPN**  
**Easy setup and installation**

- **Stateful Packet Inspection Firewall**  
Application Layer Gateways (ALG)
- **VPN Appliance**  
10 IPSec tunnels  
Encryption (DES, 3DES, AES)  
Hardware acceleration for DES/3DES
- **3G wireless support**  
HSDPA (UMTS)  
EDGE/GPRS (GSM)  
EVDO RevA/Rev0 (CDMA)  
1xRTT (CDMA)
- **Cellular data cards**  
Sierra Wireless AirCard® 595  
(EVDO and 1xRTT/CDMA)  
Sierra Wireless AirCard® 875  
(HSDPA/UMTS, EDGE & GPRS/GSM)

**KENTROX**

## SPECIFICATIONS

### INTERFACES

LAN:	One 10/100Base Tx (RJ45)
Control port:	One RS-232 (RJ45), USB
AirCard support* (cards sold separately):	Sierra Wireless AirCard 595 (EVDO and RTT/CDMA)
	Sierra Wireless AirCard 875 (HSDPA/UMTS, EDGE & GPRS/GSM)

\* Additional card support planned

### MANAGEMENT/ADMINISTRATION

GUI:	Intuitive Web-style GUI (accessible from WAN or LAN)
Access Management:	Two levels—admin and view
Logs:	Alarm, System, Intrusion, Traffic, VPN Syslog support
SNMP:	Traps, MIB II, I/F MIBs
Updates:	Software updates via GUI
Real-time Clock:	SNTP support and 8-hour power failure backup

## ORDERING INFORMATION

DESCRIPTION	CATALOG #
W1100 Wireless WAN Gateway	1100
Items included with W1100	
- Installation instructions and user documentation CD	
- One 6' Ethernet LAN cable, Cat 5e	
- Wall mount kit	
- AC and DC power accessories	
19" Rack Mounting Kit	77912

KENTROX CARE SERVICE AND SUPPORT	PART #
Onsite 7x24x4	13803
Onsite 5x8x4	13813
Onsite 7x24xNBD	13802
Onsite 5x8xNBD	13812
Basic 7x24xNBD	13804
Exchange NBD	13809
Onsite Installation	13820
Phone Installation	13830

### FIREWALL

Protection Methods:	Stateful Packet Inspection designed for ICASA compliance Denial of Service (DoS) Intrusion Detection System (IDS) Blacklist MAC filtering NAT Application Layer Gateways (ALG)
Policies:	50 user-configurable policies
Mapped IP:	32 mapped IP (bi-directional NAT)
Zones:	Trusted/untrusted

### VIRTUAL PRIVATE NETWORK (VPN)

IPSec:	10 IPSec VPN tunnels Internet Key Exchange (IKE) Main and aggressive modes Diffie-Hellman MODP groups 1, 2, and 5 Perfect Forward Secrecy (PFS) IPSec NAT traversal
Authentication:	Pre-shared key X.509 certificates
Encryption:	DES, 3DES, AES (128, 192, 256 bit), Hardware acceleration for DES/3DES
Hash algorithms:	MD5 and SHA-1

### WAN PROTOCOLS

Protocols:	IP over 3G wireless
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### DIAGNOSTIC LEDS (FRONT PANEL)

System:	System status, security alert
WAN:	Port status, Tx status, Rx status
LAN:	Port status, 10 Base Tx status, 100 Base Tx status

### PHYSICAL

Dimensions:	1.6" H x 11.8" W x 8.6" D (44mm H x 300mm W x 219mm D)
Weight:	3.8 lbs. (1.72 kg)
Power:	100-240 VAC input, 50-60 Hz; consumption: ≤ 20W +/- 24/48 VDC input Power over Ethernet IEEE 802.3af Class 0 Powered Device
Mounting Options:	Table-top, wall-mount or optional 19" rack-mount (1RU)

### ENVIRONMENT

Operating:	-20° to 60°C (-4° to 140°F) using direct DC input 0° to 50°C (32° to 122°F) using included AC supply 5% to 95% relative humidity (non-condensing)
Storage:	-20° to 66°C (-4° to 150°F) 5% to 95% relative humidity (non-condensing)

### REGULATORY

Emissions:	FCC 47 CFR 15 Class A
Safety:	ANSI/UL 60950-1-2002

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