



■ Features

- ▢ Controls 1 RS232 device located virtually anywhere (via WLAN, Ethernet or Internet)
- ▢ Secure encryption on Ethernet and WLAN
- ▢ WLAN Interface IEEE 802.11b/g 54Mb/s
- ▢ Lan interface 10BaseT/100BaseTx Ethernet

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Wireless Reefer

■ Overview

Wireless Reefer is an industrial-strength network-based serial device server for connecting one RS232 device like reefer container, genset, refrigerated truck and other devices directly to a network running TCP/IP. This network may be based on 10/100Mbps Ethernet or Wireless LAN as of IEEE 802.11b/g.

Wireless Reefer provides completely secured communication for configuration and to the attached serial device with range of up to 30 meters.

In addition to allowing serial devices to get networked, any host (PC Server or Workstation) without network access can also access remote serial device via adding Wireless Reefer devices to the existing serial port. Wireless Reefer could be integrated into reefer container electrical compartment.

■ Application

- Refrigerated containers and gensets
- Refrigerated trucks
- Monitoring at reefer container terminals
- Other remote serial devices control
- SCADA system
- Monitoring at container ships
- Automotive industries

■ Hardware

Processor

Windows and Linux compatible 166 MHz

I/O controller

16C950 or compatible

Memory

16MB SDRAM, 2 MB Flash

Connector type

SMA-Reverse for WLAN antenna,
RJ45 for Ethernet,
DSUB 9 male for serial Port

■ Interface

WLAN interface

Wireless LAN IEEE 802.11b/g, max. 54 Mb/s
Encryption WPA2-AES, WPA-PSK/TKIP, WEP-128, WEP-64
Infrastructure mode (uses an Access Point)
Ad-hoc mode (direct connection to a PC/Laptop)

Ethernet interface

Auto-detecting 10BaseT/100BaseTx

Protocols

TCP/IP, UDP, Telnet, PPP, DHCP, HTTP

Serial interface

RS232

No. of port

1, Speed up to 3.6 Mbps

Available Modes

RS232 full duplex

Signals

RS232 TxD,RxD, RTS,CTS, DTR,DSR, DCD, RI, GND

■ Performance

Speed	RS232: up to 921.6 kbps
Parity	None, even, odd, space, mark
Data bits	5, 6, 7, 8
Stop bits	1, 1.5, 2
IRQ	None
I/O address	None

■ Compatibility and request

Wireless Reefer is compatible with software from following producers of refrigerated containers :

Carrier Transicold, Thermo King, Daikin Industries, Mitshubishi Heavy Industries and Star Cool.

Wireless Reefer is fully operational with following software :

- Carrier Transicold : Dataview 7.2
- Thermo King : Logman II PC , MP Monitor, SmartSpounge , PC Pac
- Daikin Industries : Dccs 8.03 and older software
- Mitshubishi Heavy Industries : Data Logger System 5.03 and older software
- Star Cool : StarView 3.0.6.109 and older software

Wireless Reefer was tested for one year with Dell Latitude D620 and operating system Windows

XP Pro, and he was wirelessly communicating with following controllers :

- Carrier Microlink 2,2i and 3
- Thermo King micro PD,PD+,PA,MP 2000,MP 3000,MP 4000
- Daikin DECOS b,c,d,e
- Mitshubishi MMCC 2,3
- StarCool CIM 5,6

Minimum requirement for laptop proccesor is Core 2 CPU.

For more informations about Wireless Reefer and pricing fell free and contact our E-mail address.

■ Power and Surrounding

Power requirements

two battery packs from 7,2V DC, 500mA or 12V battery charger

Operating Temp

-20°C to 60°C



