



Ctek Series 4100 SkyRouter CDMA 2000/1XRTT Router

Ctek's Series 4100 SkyRouter is the ideal platform for all of your wireless data needs. SkyRouter's capabilities begin where wireless modems leave off, offering a complete IP router and firewall with a wide variety of LAN connections including Ethernet, RS232, RS485, USB, and relay management, each of which can be routed over the CDMA2000/1XRTT wireless network. SkyRouter is a completely self-contained industrial strength solution based on a proven Linux implementation and

best in class CDMA radio technology. With its intuitive web based administration and widespread network approvals your application can be rapidly brought onto your network from almost anywhere, often at a fraction of the cost of a "wired" solution.

The Series 4100 is available in two LAN configurations, the 4100E for Ethernet centric applications and the 4100S supporting the entire range of LAN options.

Platform

- Linux 2.4 OS
- 100MIPS RISC Processor
- FTP Firmware Upgrades
- Remote (WAN) Management – Can be disabled

Router

- DHCP Server
- DHCP Client
- NAT – Can be disabled
- Port Forwarding

CDMA 2000/1XRTT WAN Interface

- Packet transmission at air interface speed
- Dynamic or Static Wireless Network Addressing
- DNS - Preset or from Wireless network
- SMS – bidirectional
- DDNS (BIND, Windows Server, or EW/SMS)
- OTA Activation

SkyRouter 4100E



- Reliable Linux OS
- CDMA2000/1XRTT WAN Interface
- Integrated 4-Port Ethernet Switch
- Relay Contact Input
- Relay Driver Output
- 2-Way SMS
- Web Based Administration Remote/Local

SkyRouter 4100S



- Reliable Linux OS
- CDMA2000/1XRTT WAN Interface
- LAN Connectivity
 - ⇒ RJ45 Ethernet Port
 - ⇒ RS232
 - ⇒ RS485
 - ⇒ USB
- Relay Contact Input
- 2-Way SMS
- Web Based Administration Remote/Local



Series 4100
SkyRouter

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Feature/Specification	M4100S	M4100E
Wireless Interface		
Physical – SMA Antenna (removable) CDMA Approvals – Compliant with: IS-95, CDMA 2000 specifications. FCC: Part 22, 24 and 15.	X	X
LAN Interfaces		
Single Ethernet Port - Physical - RJ45 Electrical full or half duplex, or automatic	X	
4-Port Ethernet Switch - Physical - RJ45 Electrical full or half duplex, or automatic, Auto Polarity sensing		X
RS232 - Physical - DB9 Up to 115.2 Kbs Full Modem control	X	
RS485 - Physical - Terminal block Up to 115.2 Kbs 2-wire or 4-wire Full or half duplex	X	
USB - USB 1.1 Host	X	
Contact Interfaces		
Relay Contact Input - Physical – 2 Pin Terminal Block Electrical – Self-powered, current limited loop senses state of relay contacts. No external power required. Maximum cable length - 50 feet	X	X
Relay driver output - 40ma @12VDC		X
Controller		
Axis Etrax 100 MIPS RISC Processor, Linux 2.4 Operating System	X	X
Physical Packaging		
Dimensions: 5.275"L x 5.225"W x 2.08"H. Weight: 14oz. Extruded aluminum case with mounting holes	X	X
Environmental		
Operating temperature range: - 20C to +70C Humidity: 90% non-condensing	X	X
Input Power		
Standard - 12VDC ± 10% 115VAC -> 12VDC Wall Transformer included. 220V Transformer available	X	X

Power Consumption M4100S

Power Consumption @12VDC nominal - USB disconnected
 CDMA Radio Off - 150ma
 CDMA Radio On - Data Channel Inactive 200ma
 CDMA Radio On - Data Channel Active 300ma

Power Consumption M4100E

Power Consumption @12VDC nominal
 CDMA Radio Off - 180 ma
 CDMA Radio On - Data Channel Inactive 230 ma
 CDMA Radio On - Data Channel Active 1 Ethernet Port 384 ma
 CDMA Radio On - Data Channel Active 4 Ethernet Ports 445 ma

Designed and manufactured in the USA by:

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