



Next Generation Wireless Powering Today's Applications

Packet Transport For All Your Wireless Applications

The wide scale deployment of 2.5G wireless packet networks has created new opportunities for remotely managed or monitored applications. Not only is the throughput considerably better than with previous generations of wireless data but the availability of packet pricing has also opened up opportunities for wireless data that were cost prohibitive with circuit (per minute) connections. Ctek's SkyRouter 4100 offers you the best of both worlds, packet level transport terminating in either packet or circuit connections.

The SkyRouter 4100 operates on the CDMA 1XRTT packet network at either 800Mz or 1900Mz. Packet data arriving at the SkyRouter can be routed over Ethernet 10/100baseT networks to IP addressable devices or over a standard RS232/485 interface to legacy serial devices. Powered by an embedded 100 MIPS Linux processor the SkyRouter provides four basic modes of operation. With over 4Mb of onboard flash memory and a hefty 16 Mb of RAM available each operating mode can be extensively customized to meet your application needs.

Ethernet 10/100 BaseT – Devices connecting through this interface view the SkyRouter as a conventional routing device.

- Standard RJ45 Connector
- Supports DHCP
- Provides Network Address Translation (NAT) capabilities
- Provides Firewall capabilities

RS-232 PPP – Provides an Internet Point-to-Point Protocol (PPP) connection

- Configurable as a passive or active PPP device
- Route local PPP (serial) traffic to IP

RS-232 Telnet – Provides a character mode of operation to access simple ASCII character and line interfaces.

RS-232/RS485 Custom Protocols – Provides bi-directional conversions to allow TCP/IP communications with end points requiring a specific serial protocol.

- Serial data rates up to 115.2Kbs
- Remote host protocol conversions
- Custom onboard protocol conversions available

- ❖ Remote “no dig” installation
- ❖ Automate unreachable sites
- ❖ High-speed data connectivity
- ❖ Use Packet Pricing Plans
- ❖ Migrate to IP infrastructure
- ❖ Implement custom protocols
- ❖ Dynamic Addressing – Security
- ❖ Manage legacy from IP network



- ❖ Industrial design and packaging
- ❖ Wireless packet network interface
- ❖ IP Interface – Air Interface Speed
- ❖ RS232/485 – Up to 115.2Kbs
- ❖ Contact closure detection
- ❖ RISC Processor Linux OS
- ❖ Supports DHCP, NAT, and PPP
- ❖ Active or passive wireless access



Series 4100
SkyRouter

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Controller

100 MIPS RISC Processor
6MB Flash – Approximately 4MB available to applications
16MB RAM

DTE Interfaces

RJ45 - Ethernet
Serial Port - RS232/RS485 – Up to 115.2 Kbs
RS485
USB and Relay Contact

USB Interface

USB 1.1 Host

Relay Interface

Designed to detect closure or opening of relay contacts.
Physical – 2 Pin Terminal Block
Electrical – Self-powered, current limited loop senses state of relay contacts. No external power required.
Maximum cable length between Series 4100 and relay - 50 feet

Wireless Interface

CDMA/1XRTT
Physical – SMA Antenna (removable)
CDMA Approvals – Compliant with: IS-95, CDMA 2000 specifications. FCC: Part 22, 24 and 15.

Power

Standard - 9-12VDC \pm 10%.
115VAC -> 9VDC Wall Transformer included.
Other power options available

Environmental

Operating temperature range: - 20C to +70C. Humidity: 90% non-condensing.

Physical

Dimensions: 5.30"L x 5.05"W x 1.53"H. Weight: 12oz.
Mounting – Self standing or wall mount

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