

SkyWire

Satellite Routers

The only network device you will ever need for a remote site.

- Voice & Fax
- IPSEC & SSL VPN
- IP Routing
- Statefull Firewall
- Intrusion Detection
- Traffic Shaping
- Bandwidth Optimization
- Network Wide Web Caching
- Auto-Failover
- Integrated Ethernet Switch
- Network Wide Anti-Virus
- DNS Caching
- Advanced Monitoring
- Detailed Reporting

Combine with our voice & fax services.

UNLIMITED CALLING

Unlimited minutes for all calls to or from the US for one flat rate. We offer phone numbers in nearly every area code in the US as well as international numbers in many countries throughout the world.

100% RELIABLE & UNLIMITED FAXING

Our unique fax technology enables faxing over any connection. Simply connect any fax machine to one of our SkyWire devices and whether you're using satellite, cellular, or even DSL your faxes will always get through.



The most advanced routers designed for satellite networks.

The **SkyWire** series of convergence routers from WiredSkies are complete communication platforms that can run an entire office. Providing multiple phone lines and fax lines with 100% guaranteed fax delivery as well as advanced bandwidth optimization and Virtual Private Networks, the SkyWire is an entirely unique product.

These systems were originally designed for intelligence and military applications and are actually deployed to U.S. military bases in Iraq. We are now offering them to the entire satellite community.

Beyond the voice, fax, and routing capabilities the SkyWire also includes a statefull firewall with intrusion detection as well as traffic shaping abilities to make the most effective use of your network connections. The Pro and Enterprise versions also include built-in Ethernet switches with optional fiber optic ports making the Skywire the only network device you will need for a remote site.

While the SkyWire routers are designed for satellite networks, they function equally as well over any network medium. Performing most optimally under least optimum conditions.

The **SkyWire Lite** is a voice and fax router that provides clear voice and 100% reliable fax for those who do not need some of the advanced capabilities of the SkyWire Pro series. It has two RJ-11 phone ports which may be setup for voice lines or fax lines.

The **SkyWire Pro** is an all in one router with voice, fax, VPN and bandwidth optimization capabilities. It has 4 10/100 LAN ports for connecting computers and printers. It provides crystal clear voice and 100% reliable fax communications using a fraction of the bandwidth required for typical VoIP applications. The SkyWire Pro is available with up to 8 RJ-11 phone ports which may be setup for voice lines or fax lines.

The **SkyWire Enterprise** is an all in one enterprise class convergence router with voice, fax, VPN and bandwidth optimization capabilities. It is simply the most advanced router available today. The Enterprise series comes in rack-mount form factor and has 6 gigabit LAN ports for connecting to computers or additional switches. It is available with up to 24 RJ-11 phone ports which may be setup for voice lines or fax lines. Fiber optic ports are optionally available.



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SkyWire Router features



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Network Web Caching

Why Do The Same Thing Twice?

Would you make a separate trip to the grocery store every time someone in your office wanted a glass of water? Of course not, this would waste all your time. Instead you would just go one time, pickup a large container, and whenever someone wanted water they would just pour it from the container.

Without the SkyWire router, anytime someone in your office visits a website they are making a trip across the internet and bringing the site back with them. Approximately 35-40% of all web use in most offices are from the same websites. Why make a separate trip each time if everyone is requesting the same pages?

SkyWire web caching saves a copy of every website that is visited by everyone in your office. Then when someone goes to the same page that someone else has already visited, instead of making another trip, it comes instantaneously from the Skywire router. This provides an incredible boost in performance and makes Internet access much faster all while reducing the amount of bandwidth that is used on your internet connection.

VPN

Connections without cost.

The world has changed over the last couple of decades. Instead of simply dealing with local or regional concerns, many businesses now have to think about global markets and logistics. Many companies have facilities spread out across the country or around the world, and there is one thing that all of them need: A way to maintain fast, secure and reliable communications wherever their offices are.

Until fairly recently, this has meant the use of leased lines to maintain a wide area network (WAN). A WAN had obvious advantages over a public network like the Internet when it came to reliability, performance and security. But maintaining a WAN, particularly when using leased lines, can become quite expensive and often rises in cost as the distance between the offices increases.

A Virtual Private Network (VPN) takes advantage of the cost savings and availability of the Internet to create secure, private connections between two or more locations. It is essentially a tunnel through the Internet with only your offices at each end.

Using a Skywire router, you can create private connections between remote locations enabling each side to be part of the same network. The Skywire router can both connect to other Skywire routers or it can connect to the majority of third-party VPN routers such as a Cisco device.

While most VPN products only support one method of creating these secure tunnels, the Skywire routers support two: IPSEC and SSL. Additionally, when connecting two SkyWire routers with our optimized VPN service, significant performance improvements are achieved through the use of proprietary protocols and compression techniques. The advantages of which are best applied to poor performing network connections such as satellite or cellular links.

100% Reliable Faxing

A First.

Sending a fax seems like a simple thing. However when you try to connect a fax machine to a satellite or cellular link, that is when the simplicity breaks down. Fax machines do not communicate well over these links because of the delay between the two ends. On a satellite connection this can go upwards of a full second between the time that the fax machine on the remote end "hears" the other fax machine.

To make matters even worse, most voice/fax systems for satellite use Voice over IP and while this may work for a phone call, it does not for a fax. The reason is that the fax sounds are being compressed just like an mp3 compresses music. However, the methods used to compress these sounds are designed for voices not fax tones. When was the last time you had a conversation with someone and they sounded like a fax machine?

Skywire solves both problems and can guarantee 100% reliability for faxing over ANY connection.

This is achieved through the use of a "store and forward" system. You connect your fax machine to your Skywire router. When you dial a phone number from your fax machine, instead of going across the satellite connection to call the remote fax machine, the Skywire router answers the call just as if it was the fax machine on the other end. The Skywire router then receives the entire fax all while keeping your fax machine happy as there is virtually no delay.

Once your fax machine has sent the entire fax, the SkyWire then turns your fax into a file and transfers it to a WiredSkies server. The server turns this file back into a fax and calls the remote fax machine you were originally sending the fax to. Since this happens on the public telephone network, it is just like sending a fax from a land line and it goes through without any difficulty.

There are no other systems currently available that handle fax calls in this way making the SkyWire the most reliable system for sending faxes.

ADDITIONAL FEATURES

IP Routing functions are used to connect your computers, printers, and other network devices to the Internet and/or other locations within your company's network. With the SkyWire products, you do not need to purchase additional network devices such as routers or firewalls as all our devices perform these functions. A SkyWire router is the last network device you will ever need.

The SkyWire also provides detailed monitoring of all traffic on your network. You can instantly see current and past network usage graphs, which websites users are visiting, and performance

Firewalls are used to restrict access to your network and prevent unauthorized use from hackers and viruses. While many firewalls simply limit what connections are allowed in, the stateful firewall found in the SkyWire series actually tracks every single packet that flows through it and knows how all the traffic is related.

This enables much more effective filtering without some of the inconveniences and limitations typical (stateless) firewalls suffer.

Intruders beware. The Skywire (pro & enterprise only) is constantly analyzing network traffic and can detect when someone is trying to get into your network. Once an intruder is identified, your entire office is in stealth mode. From the unauthorized users perspective, your network just disappeared and they can no longer even attempt to gain access.

This ensures that your users and data is safe from malicious users attempting to access your network. Reports can automatically be generated and emailed any time unauthorized access is detected.

All network connections have a limited amount of bandwidth and this single factor can cause a major bottleneck. Simply tell the SkyWire how much bandwidth you have available on your Internet connection and it will allow you to control how it is used.

For example: You have an internal website that you use for looking up information on your customers, but it is running slow because Dan is downloading pictures. You have the customer on the phone, but are still waiting for his information to come up on your screen. Wouldn't it be better if you could make sure that your internal website is always running as fast as possible regardless of what someone else is doing?

Auto-Failover

With WiredSkies, zero down-time is an absolute and obtainable possibility when it comes to your telephones, fax, and internet. In the event of an outage, our fail-over system will have you right back up and communicating with the rest of the world via satellite. When your primary connection is available, it will switch everything back.

This is reliability.

SkyWire Router feature comparison



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Product Features	SkyWire Lite (SWL)	SkyWire Pro (SWP)	SkyWire Enterprise (SWE)
Complete IP Router.	✓	✓	✓
Integrated Firewall.	✓	✓	✓
Intrusion Detection.	✓	✓	✓
Traffic Shaping.		✓	✓
Network Web Caching.		✓	✓
Auto Failover.		✓	✓
Virtual Private Network (VPN).		✓	✓
Integrated Ethernet Switch.		✓	✓
Gigabit Ethernet Ports (10/100/1000).			✓
Optional Fiber Optic Ports.			✓
Rackmount.			✓
Voice & Fax Features			
Unlimited Local & Long Distance Calling.	✓	✓	✓
Bandwidth Optimization.	✓	✓	✓
100% Reliable Faxing.	✓	✓	✓
Voicemail & Caller ID.	✓	✓	✓
Maximum Number of Voice & Fax Lines.	2	8	24



SkyWire Lite specifications



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Network Features

- Advanced IP Router
- Automatic WAN Failover
- NAT Traversal (will work behind NAT or other firewalls)
- Integrated Stateful Firewall
- Demilitarized Zone (DMZ)
- Intrusion Detection
- Traffic Shaping
- Portscan Detection
- DoS and DDoS Protection
- SYN/ICMP Flood Protection
- Anti-Spoofing Protection
- Integrated VPN capabilities
- Destination and Source Based Routing
- 6 10/100 Ethernet Port (LAN/WAN)

Logging & Reporting

- Live Log Viewer (AJAX based)
- Detailed User Based Web Access Report
- Detailed Network Utilization Graphs
- Protocol Reports
- System/Performance Statistics & Graphs
- Syslog: Local or Remote

Voice & Fax Features

- Crystal Clear Voice
- 100% Reliable Faxing over ANY IP Connection
- Compatible with all fax machines, connect just like any phone line
- Auto-Retry continues to attempt to send fax if line is busy
- Unique compression technology uses dramatically less bandwidth than typical VoIP
- Phones numbers available in nearly all US area codes
- International numbers also available
- Includes voicemail
- Standard RJ-11 phone jacks, connect any phone or fax machine

Hardware Specifications:

- 2 10/100 Ethernet Ports
- Up to 2 RJ11 Telephone Ports
- Dimensions: 158 (w) x 155 (d) x 28 (h) mm (6.22" x 6.10" x 1.1")
- Weight: 0.58 kg (1.3 lbs)
- Temperature: 5 to 40°C (41 to 113°F)
- Power Consumption: 10W Max

SkyWire Pro specifications



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Network Features

- Advanced IP Router
- Automatic WAN Failover
- NAT Traversal (will work behind NAT or other firewalls)
- Integrated Stateful Firewall
- Demilitarized Zone (DMZ)
- Intrusion Detection
- Traffic Shaping
- Portscan Detection
- DoS and DDoS Protection
- SYN/ICMP Flood Protection
- Anti-Spoofing Protection
- Integrated VPN capabilities
- Destination and Source Based Routing
- 6 10/100 Ethernet Port (LAN/WAN)

Web Security

- HTTP & FTP proxies
- Advertisement Removal
- Anti-virus (100.000+ patterns)
- Transparent Proxy support
- Content Analysis/Filtering
- URL Blacklist
- Authentication: Local, RADIUS, LDAP
- Active Directory
- NTLM Single Sign-On
- Group Based Access Control

Logging & Reporting

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VPN

- Supports both IPSEC & SSL VPN tunnels
- Supports both Point-to-Point & 'Roadwarrior' VPN
- Encryption: DES, 3DES, AES 128, 192, 256-bit
- Authentication: Pre-Shared Key, X.509 Certification Authority, Local
- Native VPN Client for MS Windows, MacOSX, and Linux
- VPN Failover
- NAT Traversal

Hardware Specifications:

- 6 10/100 Ethernet Ports
- Up to 24 RJ11 Telephone Ports
- Dimensions: 428.6 (w) x 360 (d) x 44 (h) mm ("16.87 x 14.17" x 1.73")
- Weight: 9.8 kg (21.59 lbs)
- Temperature: 5 to 40°C (41 to 113°F)
- Power Consumption: 220W Max

SkyWire Enterprise specifications



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Network Features

- Advanced IP Router
- Automatic WAN Failover
- NAT Traversal (will work behind NAT or other firewalls)
- Integrated Stateful Firewall
- Demilitarized Zone (DMZ)
- Intrusion Detection
- Traffic Shaping
- Portscan Detection
- DoS and DDoS Protection
- SYN/ICMP Flood Protection
- Anti-Spoofing Protection
- Integrated VPN capabilities
- Destination and Source Based Routing
- 6 10/100 Ethernet Port (LAN/WAN)

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