

Remote Broadband Network Solution



Give your customers the **most efficient** broadband
IP access via satellite

—competitively priced, rapidly deployed!



SATCOM
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The iDirect Satellite Router integrates all the hardware and software needed to deliver bi-directional broadband connectivity easily and efficiently using industry-standard ethernet connections and TCP-IP protocols—all while delivering the highest data throughput speeds in the industry today—18 Mbps downstream, and 4.2 Mbps upstream. And, because this system is highly scalable for both inbound and outbound data rates, it allows users to easily accommodate current and future bandwidth requirements.



Deliver all the benefits of the next generation IP network anywhere in the world. iDirect's Broadband Satellite Router provides an elegantly simple "one box" solution that provides enterprise-class IP transport and traffic management over satellite networks.

Superior technology delivers speed, scalability, and is highly reliable

iDirect's Satellite Router is a compact set-top terminal that delivers a satellite modem, IP router, TCP optimization over satellite, encryption, and QoS/prioritization all in one easy to deploy solution.

iDirect's Satellite Router provides the networking power you need to support enterprise applications such as Voice over IP, ERP systems, Internet access and many others. The Satellite Router was developed to include all the functionality customers need to:

Deliver broadband access

anywhere. The Satellite Router supports the highest TCP/IP throughputs in the industry, with speeds up to 18 Mbps downstream and 4.2 Mbps upstream. And, since iDirect-supported networks can be configured in 1kbps increments, users can get exactly the bandwidth they need in the most cost effective manner.

Support all network user

demands. Not only can iDirect support any application, it can simultaneously support data, voice and video to multiple locations while guaranteeing the delivery quality. Remote locations will have

the same capabilities as offices on landline broadband IP networks.

Manage all your remote units

from a central location. The iDirect Network Management System provides all essential monitor and control operations from a centrally located network operations center (NOC).

Support more applications and carry more traffic over your

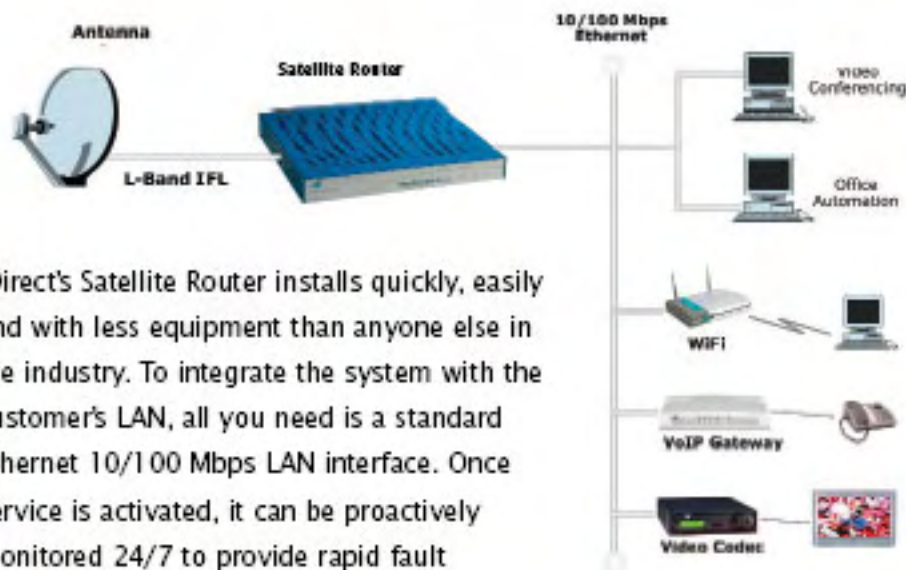
available bandwidth. Deterministic TDMA (D-TDMA) algorithms allocate bandwidth among multiple remote sites, based on instantaneous conditions. Several times a second, our D-TDMA feature allocates



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Sample Site Configuration



iDirect's Satellite Router installs quickly, easily and with less equipment than anyone else in the industry. To integrate the system with the customer's LAN, all you need is a standard Ethernet 10/100 Mbps LAN interface. Once service is activated, it can be proactively monitored 24/7 to provide rapid fault resolution and maximum service uptime.

- ◆ Uplink Power Control – provides higher availability
- ◆ TCP and HTTP Acceleration – reduces overall bandwidth allocation

Insure the security of your data without impacting performance.

Not only does the iDirect Satellite Router include a 3DES/AES chip-set, iDirect encrypts all traffic at the same time, allowing TCP acceleration to be performed. This insures the high level of security doesn't impact the network performance.

bandwidth based on criteria such as the queued depth at each remote site, the CIR (Committed Information Rate) configuration, Quality of Service and Prioritization requirements, as well as any Rate Limiting established at each remote site.

Deploy the most flexible and granular Quality of Service (QoS) capabilities in the industry. You can automatically identify, classify and prioritize data traffic across the network to provide flexible service and application options to customers.

Offer customers different service levels for different applications (i.e., VoIP) or locations — prioritize traffic by protocol, source or destination address, port numbers,

and other criteria. Network QoS options allow you to prioritize real-time or non-real-time traffic over shared bandwidth.

Optimize your available capacity. The iDirect solution is designed to help make the most of your available bandwidth. As a pure "IP over the air solution", the iDirect system saves 10-50% capacity compared to inefficient MPEG encapsulation. Additionally, iDirect networks are inherently designed with:

- ◆ Rapid Bandwidth on Demand
- ◆ MF-TDMA – allows the most efficient use of satellite capacity
- ◆ D-TDMA – allows 98% payload efficiency
- ◆ 1.2 Spacing – delivers 14% savings in bandwidth

Satellite solutions made practical

iDirect's industry-leading broadband solution is simple to install and service. We provide everything you need—the set-top box, antenna, and outdoor electronics. This integrated, easy-to-use remote solution also utilizes an L-band that requires fewer physical resources and allows for lower cost equipment. All that's needed is electricity for the indoor unit and rooftop access for the antenna. Remote sites do not even require an exterior electrical power supply.



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The iDirect Difference

iDirect was the first in the industry to look at satellite networking as more than just a remote link. Our solution was developed to be an extension of existing IP networks, delivering all the functionality and capability you expect from traditional broadband networks.

As a pure end-to-end IP solution, iDirect networks can offer our customers the tools, solutions, and expertise necessary to enable the enterprise applications that increase profit potential, improve efficiency and advance their competitive situation.

Unique capabilities increase your profitability, decrease your costs

Take advantage of iDirect's unique combination of highly-efficient bandwidth usage, enormous flexibility, and superior reliability and performance. Extend your broadband service anywhere in the world, economically, quickly and easily, with iDirect.



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