



PAIPER

D-SAT BROADBAND ON DEMAND

HUBLESS BROADBAND NETWORKS VIA SATELLITE

LAN INTERCONNECTIONS, VIDEOCONFERENCING, TELEPHONY, TELECOMMUNICATIONS INFRASTRUCTURE, BROADBAND MARITIME COMMUNICATIONS AND MUCH MORE

Incorporate your networking applications, whether IP, ATM, Frame Relay, or ISDN protocols, into one high-performing network using Eutelsat's D-SAT service. With adaptive on-demand bandwidth and advanced coding, D-SAT, a hubless VSAT system, gives you broadband connections efficiently and cost-effectively.

Save on transponder costs while seamlessly connecting your networking applications, in mesh, star, or multi-star hybrid topologies.

Satellite capacity is offered on a pay-per-use basis for both land-based and maritime markets. All terminals are interoperable over C- or Ku-band Fixed Satellite Service (FSS) satellites.

D-SAT is ideal for telephony, emergency networks, LAN/WAN interconnection, Internet access, Intranet, videoconferencing, telemedicine, Virtual Private Networks (VPNs), and the extension of GSM networks.

KEY FEATURES

- // Adaptive bandwidth assignment and advanced coding for the most advanced mesh VSAT networks
- // Mesh, star or multi-star hybrid architectures
- // ATM, Frame Relay, ISDN or IP packet traffic

KEY BENEFITS

- // Wide geographic coverage
- // High availability
- // Flexible network configuration
- // Rapid network deployment
- // Centralised control and monitoring
- // Full end-to-end bandwidth management
- // Guaranteed Q.O.S.(Quality Of Service)
- // High level of Internet backbone connectivity

KEY APPLICATIONS

- // Local and wide area networks
- // Videoconferencing
- // Telemedicine and e-Learning
- // Voice over IP and telephony
- // Telecommunications infrastructure
- // Disaster recovery
- // Remote dedicated links
- // Maritime communications



SYSTEM DESCRIPTION

D-SAT can be used in a maritime or ground mobile environment, using customer-supplied stabilized platforms. System acquisition and timing is automatic, using GPS, thus allowing for turn-key mobile networking.

The D-SAT Indoor Unit (IDU) contains one integrated IP port and two optional interface ports, supporting ATM, Frame Relay, ISDN and voice services. The plug-in interface ports can be upgraded in the field. Terminal modems can operate in an asymmetric mode, for users such as ISPs. An integrated burst modem features fast frequency hopping for both transmit and receive.

The terminal includes a console interface port for unit installation and maintenance, however D-SAT is designed for stand-alone operation and requires no local operator control.

Remote sites can be configured and monitored using either the over-the-air satellite connection, or by dialing-in with an external modem and analog line.

The VSAT terminal includes a radio frequency transceiver (RFT) consisting of C- or Ku-band radio equipment, along with an antenna and mounting hardware.

SIMPLE INSTALLATION

Eutelsat's network of partners' ensures that the D-SAT service is easy to install and operate.

Typical radio transmit powers are 5, 10, and 20 watts in C-band, and 2, 4, 8 and 16 watts in Ku-band, with uplink power control for added availability.

Typical antenna sizes are 1.2, 1.8 and 2.4 meters in Ku-band, and 1.8, 2.4 and 3.8 meters in C-band. The RFT design eliminates the need for AC power on the roof, reducing your administrative work and installation costs.

D-SAT can be deployed with a variety of RFT sizes based on the satellite system, traffic flow, and geographic location of your network.

