

8Box

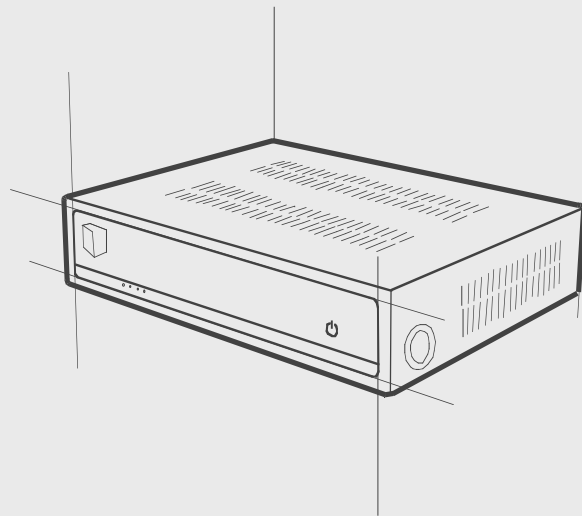
Satellite Router

8Box Satellite Router is a complete featured satellite receiver and router integrating satellite connectivity in the small office (SOHO) and small/medium LAN.

8Box performs connectivity and management of the satellite data, video streaming, push contents and Internet services.

Its reliability and adaptability make it possible to be used in a wide range of business environments.

8Box can be easily installed and configured in a few minutes!



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8Box Application:

- Broadband Internet access
- Business television
- E-Learning
- Software updates
- Files and contents distribution
- WiFi Access Point for areas not covered by terrestrial broadband

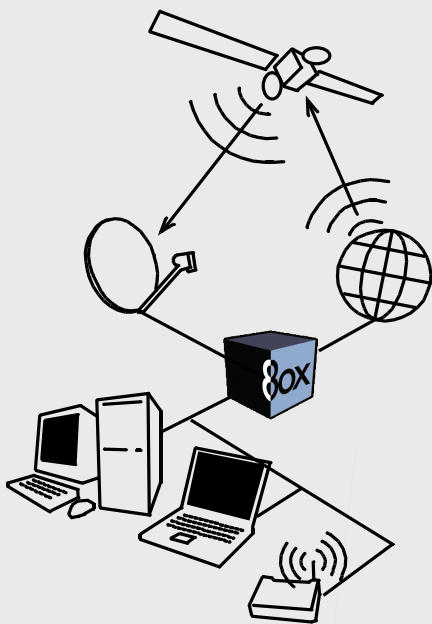


8Box Satellite Router

8Box is a satellite router which has been developed on OPENSKY features provided by Eutelsat. 8Box can share OPENSKY services over your LAN, either wired or wireless, without installing any hardware on each computer.

8Box allows you to watch OPENSKY streaming video and receive OPENSKY push contents by using the personalized OPENSKY Client for 8Box.

8Box can also share satellite broadband over your LAN. The dial up on demand and the cache system allow you to optimize the connection to OPENSKY Fast Internet.



Features

Management

Simple web based administration interface
Standard SNMP access to monitor 8Box performances and reporting services*

8Box functionality

Optimized for up to 20/30 concurrent LAN-connected users
100Mbps throughput
Proxy-cache: http, https, ftp
Transparent Proxy, socks5
Firewall
Unicast and Multicast traffic routing
Small packet processing for efficient data forwarding
VPN*
DHCP server*
Firewall*
IP Masquerading*
NAT e transparent proxy*

System details

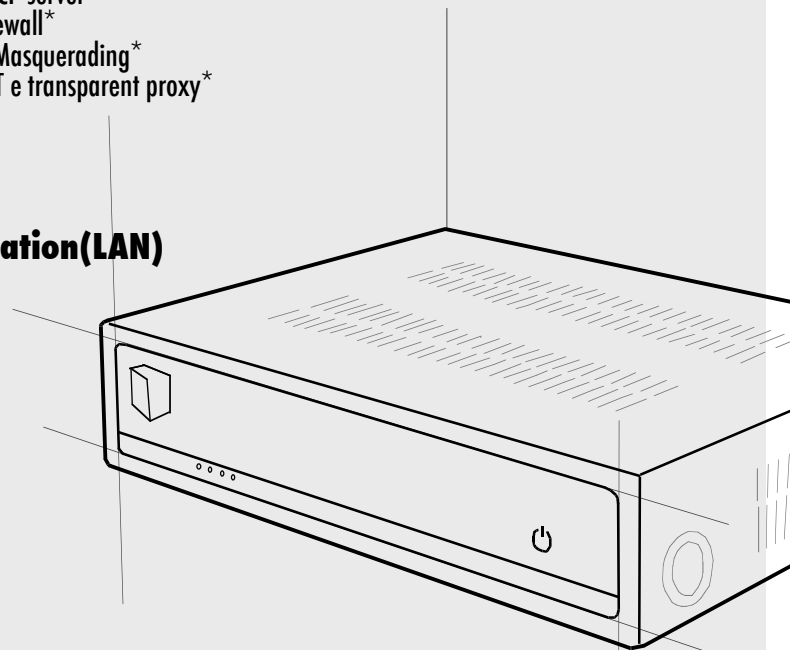
Embedded Linux operating system
32MB Disk on chip memory for software image

Easy network connectivity and configuration(LAN)

Double 10/100 Ethernet port
HTTP server for configuring via web browser
ASCII Command Line Interface for Telnet
ASCII Command Line Interface for RS232 and console
RJ-45 jack

Available Back-channels

Optional internal PSTN modem
Optional internal ISDN modem
Optional internal WiFi Access Point





Available add on module

Traffic control It enables the 8Box administrator to control the traffic generated by each client in the LAN. Clients are authenticated through MAC address; it is possible to define traffic limit and expiry date for each of them. Clients can be arranged into 4 different classes in order to optimize the use of the satellite bandwidth. This module also allows you to elaborate either collective or single-user reports.

WI-FI It allows the sharing of satellite broadband and OPENSky services over a wireless network. This module provides 8Box with an external access point in order to have a fast connection to the network by using wireless devices 801.1b+. OPENSky services do not require any space limits.

DHCP Server It enables 8Box to set automatically on each client all the parameters required (default gateway, domain name, DNS server).

Firewall It protects your local network from external undesirable traffic, and controls data traffic coming from and to the network. The aim of a firewall is to control data traffic. Using instructions called "rules" you can specify the kind of traffic (source, destination and protocol) your LAN is allowed to generate and to receive.

Transparent proxy It allows the use of 8Box without setting the proxy http/ftp and socks on all the computers of the LAN. Clients in the LAN must set 8Box ip address as default gateway.

Masquerading This is a very useful device in case you are using 8Box as a gateway for your LAN. Lan1 interface can be used to connect your LAN to 8Box, which can be connected to the external web through lan2 interface. All packets coming from lan1 interface to lan2 interface have 8Box ip address.

SNMP It provides the monitoring of 8Box performances. SNMP allows you to monitor 8BOX most relevant parameters such as CPU utilization.... and others.

Nera Satlink It enables the 8Box administrator to control the traffic generated by each client in the LAN. Clients are authenticated through MAC address; it is possible to define traffic limit and expiry date for each of them. Clients can be arranged into 4 different classes in order to optimize the use of the satellite bandwidth. This module also allows you to elaborate either collective or single-user reports.

VPN It allows 8Box to connect the hosts of your LAN directly to OPENSky network, in order to use OPENSky Fast Internet even though your ISP is using a proxy server for the Internet connection.

Platform

- Dimension (D x W x H): 32 x 25 x 8 cm
- Two 10/100 Ethernet Port
- RJ-45 Jack
- RS-232 serial port: Console port
- video output
- Embedded Linux Operating System

Satellite Receiver RF Tuner

- L-Band receiver
- Receiving Frequency: 950 MHz - 2150 MHz
- DVB Compliant
- Universal LNB
- RF Input Impedance: 75 ohm

Demodulation and Error Correction

- QPSK and BPSK demodulator
- 1-55 MSymbols/sec
- Viterbi Inner Code: R=1/2, 2/3, 3/4, 5/6, 7/8, (auto sense)
- Reed-Solomon Outer Code (k+T,K,T): (204, 188, 8)

Data Handling Capability

- Protocols: IGMP
- PPP (RFC 1661) for external dial up connection including PAP and MS-CHAP security
- DHCP (RFC 2132)
- Tunnelling:
 - PPTP (RFC 2637)
 - Masquerading/NAT
 - Transparent Proxy
- Rules and Filtering:
 - Firewall
 - 32 PIDs filtering

LNB Power and Switching

- Supply voltage selectable: Off, 13V or 18V
- Antenna Control: 22kHz signal
- DiSeqC: 1.0



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