Odin Satellite Router (F-50)

Odin is a cost effective, high performance satellite router for hybrid Internet over satellite services. DVB-S2/ACM is used for downlink and can be combined with a variety of terrestrial return channels.

The most commonly used return channels are

- Mobile (GPRS/EDGE/3G/LTE) for enabling broadband connectivity in rural areas
- xDSL for on-demand bandwidth acceleration

The satellite router integrates all functionality required for hybrid Internet over satellite connectivity. For simplified installation, the satellite service provisioning is completely automatic.

Technical data

Overview

Integrated web based (http) user interface.

No software/drivers need to be installed on connected computers.

An integrated DHCP server provides private IP addresses to all connected computers.

Linux based operating system.

Applications

- Hybrid Internet over satellite
- Satellite multicast reception

Performance

Up to 60 Mbit/s from satellite to LAN

Processor & Memory

Ali M3527 SOC

512 MB DDR3 1600Mhz RAM

256 MB non-volatile flash memory

Connectivity

Ethernet ports for WAN and LAN

Wi-Fi Access Point (802.11n)
Wi-Fi TX: 20 dBm at 2.4 or 5 GHz

Satellite Front-End

Support for DVB-S2/ACM and DVB-S

Input frequency range: 950 MHz to 2150 MHz

Symbol rate support:

1-67.4 Msym/s (QPSK, 8PSK, 16APSK)

1-53.9 Msym/s (32APSK)

Modulation support: DVB-S2 modcod range
Supported roll-off: 5%-35%

Software

Linux operating system

Web based user interface

Integrated client for the Mimir HUB

DHCP server for simple IP address management

Front Panel

1x LED for power
1x LED for return channel connection
1x LED for Mímir connection

1x LED for satellite lock

Power Supply

External AC/DC converter: 230VAC/12VDC 2A

Mechanics (excluding connectors)

HxDxW: 205x145x38

Connectors / Rear Panel

1 x RF input connector, F connector (75 Ohm) for satellite feed

2 x Ethernet ports, 100Mbit/s (RJ-45)

2 x USB-A 2.0 (device) ports

1 x Mains AC/DC power supply adapter inlet 12V through DC plug

1 x Factory reset button

Accessories

User manual in English

Optional accessories (extra cost):
Ethernet cable (2m)
Power supply

Supported USB Dongles

Supported USB dongles (3G/EDGE/GPRS)

Huawei (3G)

- E173u (12d1:1436)
- E173s (12d1:1c05)
- E173s (12d1:1c10)
- E173s (12d1:1c23)
- E169/E620/E800 (12d1:1001)
- E1820 (12d1:14ac)
- E3131 (12d1:151d)
- Preconfigured Hi-Link dongles

ZTE (3G)

- MF190 (19d2:0117)
- MF190 (19d2:0031)
- MF190 (19d2:0154)
- MF636 (19d2:0033)

Other

- Huawei E3372H-320 **(4G LTE)**
- BSNL EVDO CAPITEL (1c9e:9e00)
- ZD Incorporated (0685:7000)
- NetworkConnect MT6229 (2020:2000)

Industrial Design