

FREYA™ F-55 HYBRID SATELLITE TERMINAL



The ultimate home interface to HD satellite TV that integrates broadband Internet access via satellite. Freya™ lets home users centralize their satellite services into one device.

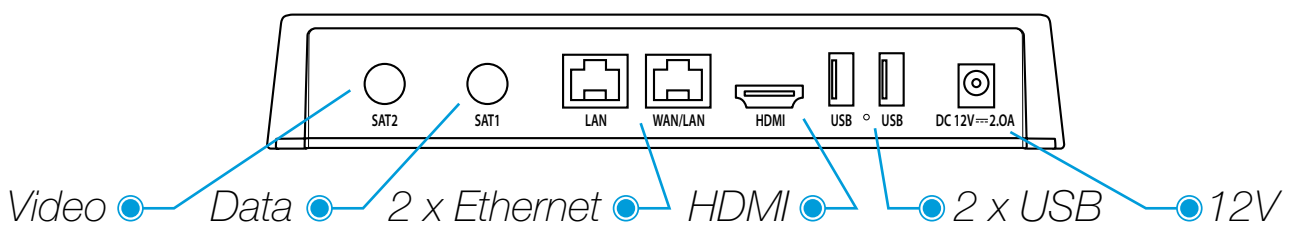
Freya™ is the cost-effective option for operators offering both satellite TV and Internet. Not only does Freya™ reduce the device cost for operators and installation struggles for end-users, but the operator can also improve their support. With both TV and Internet from one connected device it is possible for DTH operators to connect to the device to identify problems without end-user interaction.

Freya™ gives the operator the combination of a high-end zapper STB and a high-performance satellite router for hybrid Internet over satellite services. A selection of return channels can be combined with a high throughput DVB-S2/ACM forward link for well performing Internet services.

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

For simplified installation, the Internet over satellite service provisioning is completely automatic.



TECHNICAL SPECIFICATION

Overview

TV interface for large-screen interaction.
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

- Satellite TV services
- Hybrid Internet over satellite
- Satellite multicast reception

User interface (TV display)

Basic TV application for viewing and channel handling.
Possibility to apply external middleware for a customized interface (case by case, please contact us).

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

Satellite front-end

Support for DVB-S2/ACM, DVB-S
Input frequency range: 950 MHz to 2150 MHz
Symbol rate support:

- 1-68,4 Msym/s (QPSK, 8PSK, 16APSK)
- 1-53.9 Msym/s (32APSK)

Modulation support: DVB-S2 modcod range

Connectivity

Ethernet ports for WAN and LAN
Wi-Fi Access Point 802.11b/g/n/ac, 2T2R

Software

Linux operating system
TV middleware for the STB part
Web based user interface for the router part
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 Mimir connection
1x LED for satellite lock

Power Supply

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

Mechanics (excluding connectors)

HxDxW: 205x145x38 mm

Connectors/Rear-panel

2x RF input connector: F connector (75 Ohm) for satellite feeds
1x HDMI v.1.3 (1080p) connector
2 x Ethernet ports, 100Mbit/s (RJ-45)
1 x Mains AC/DC power supply adapter inlet 12V through DC plug
2 x USB-A 2.0 ports
1 x Factory reset button

Accessories

User manual in English
Remote control
Optional accessories:

- Ethernet cable (2m)
- HDMI cable
- Power supply

Supported UDB dongles

Supported USB dongles (3G/EDGE/GPRS)

Huawei

- 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

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

Other

- BSNL EVDO CAPITEL (1c9e:9e00)
- ZD Incorporated (0685:7000)
- NetworkConnect MT6229 (2020:2000)