

Fiber Termination Unit with CATV receiver

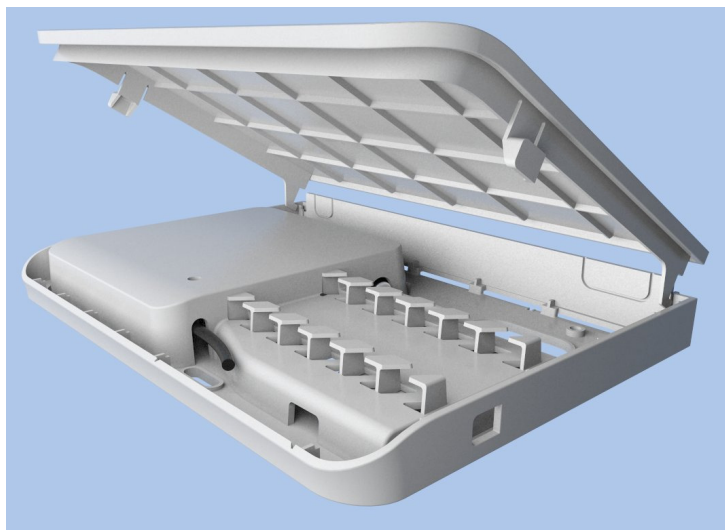
Oberon600



To secure investments in access fiber plants, traditional user segment should be taking into account as well. When it comes to deploying the video service over fiber, video is transmitted to radio frequencies (RF) and signals are then carried across the fiber network as RF over fiber. The least expensive solution is to broadcast analog video over the fiber infrastructure in the same manner as an analog cable system. One advantage is the cost: a wealth of analog cable products are available at a low price to build out the head-end. Also, no set-top boxes are required to decode the video inside the customer's home, further reducing the cost of implementation.

Fiber Termination Unit (FTU) Oberon 600 with RF Fiber-Coax converter introduces the flexible housing with fiber optic CATV receiver and fiber cord amortization. It is designed to be used at end user site in fiber CATV distribution network. The CATV receiver receives the optical signal and converts it into standard analog TV signal.

The flexible housing enables easy integration with Iskratel IP Home Gateway (e.g. Prospero632). Unit enables powering and side or on top mounting of HGW Prospero with single power supply adapter. In addition storage for fiber optic cable is provided in same housing.



Key Benefits

- **Reliable and low technical staff training and investment**
- **Easy to maintain**
- **No need to invest on set-top box, cable modem and CMTS (Cable Modem Termination System)**
- **Common power supply with IP HGW**
- **Standalone installation or in combination with IP HGW (back-to-back or side)**



Side installation of FTU Oberon600 with HGW Prospero632 (wall-mount)

ISKRATEL

Key Features of CATV receiver

- **Optical CATV home receiver for multichannel television and radio signals, it includes:**
 - **RF converter**
 - **DC/DC converter**
 - **Fiber cord amortization**
- **Ultra low noise push-pull technology**
- **Very low distortion**
- **Wide range of optical input power**
- **Single mode fiber, high return loss optical interface**
- **F-female 75ohm RF connector**



Back-to-back installation of FTU Oberon600 with HGW Prospero632 (desktop)

Technical specifications

| Optical Parameters | |
|---------------------------------------|-------------------------|
| • Wavelength (nm) | 1310/1550 |
| • Input power range (dBm) | -10 to -3 |
| • Connector | SC/APC |
| • Optical Return loss (dB) | 45dB |
| RF Parameters | |
| • Analog bandwidth | 47 to 1000 MHz |
| • Receiver noise current | Max 5 pA/√Hz |
| • RF impedance | 75Ω |
| • RF output power at -10 dBm | >88 dBμV |
| • CTB | 66 dB |
| • CSO | 67 dB |
| • RF return loss (dB) | > 12 |
| • Flatness | ±1dB |
| • RF connector | F type (female) |
| Electrical / Physical / Environmental | |
| • Power requirement | 15 V DC |
| • Power consumption (W) | 1,1W |
| • Operating temperature (°C) | -10 to + 60 |
| • Storage temperature (°C) | -40 to + 85 |
| • Dimensions | 116 mm x 95 mm x 25 mm. |

Issued by Iskratel, Ltd., Kranj. All rights reserved. Information in this document is subject to change without notice.

Iskratel, d.o.o., Kranj

Ljubljanska c. 24a, SI 4000 Kranj, Slovenia
 phone: +386 (0)4 207 20 00, fax: +386 (0)4 207 27 12

e-mail: info@iskratel.si
www.iskratel.com

MAD058300-GEE-040

Obr.: 70-158a