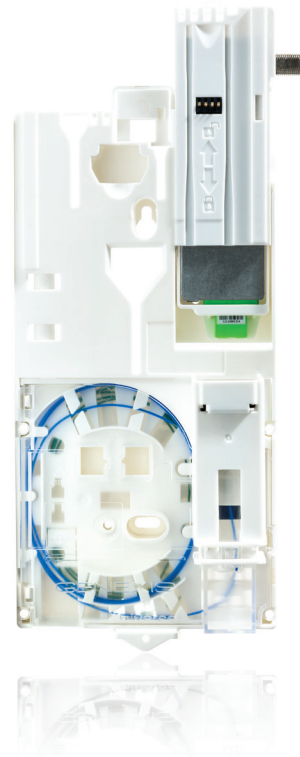


## Universe

### Fiber Termination



The Universe Fiber Termination Unit forms the foundation of all Genexis Hybrid products. It has been designed to enable swift installation and to fully utilise the capabilities of fiber.

It reduces installation costs and makes it easy for the end user. The Universe is the most versatile and complete Fiber Termination Unit on the market.

#### Features

- » Compact wall-mount Fiber Termination Unit, compatible with the full Hybrid product portfolio
- » Intelligent fiber management system
- » Terminates up to 4 fibers
- » Hot-pluggable modular CATV receiver, powered via the Hybrid Element
- » Daisy-chain two Universe FTUs to enable double-slot support
- » Patented technology

#### Termination of multiple fibers

Two fibers can be terminated, providing two optical interfaces that can be connected to two active modules directly. Two additional fibers can be terminated and patched outside the fiber termination unit.

#### Universe CATV module

The Genexis Universe CATV module is a modular CATV receiver that slides into the Universe. The module is completely 'hot pluggable', meaning it can be installed or uninstalled with an active module already mounted on the Universe. This enables the customer to install the CATV module themselves and provides additional flexibility to the service provider.

#### Compatibility

The Fiber Termination Unit is compatible with the Genexis Hybrid modules for data, voice and CATV services. The Universe comprises a single slot based on the universal fiber termination unit standard.

# Product features & specifications

## Universe

### General specifications

- » Dimensions (H x W x D)
  - incl. blind cover 210x105x45mm
  - incl. Element and Live! 241x104x75mm
- » Weight
  - excl. dummy cover 170 g
  - incl. dummy cover 240 g
- » Operating temperature 0 - 70 °C
- » Storage temperature 0 - 70 °C

### WDM-filter (optional)

- » Data channel wavelengths:
  - upstream 1260 - 1360 nm
  - downstream 1480 - 1500 nm
- » CATV channel wavelength 1545 - 1560 nm
- » Insertion loss:
  - data channel \* < 1.5 dB
  - CATV channel \* < 1.0 dB
- » Isolation:
  - data channel > 30 dB
  - CATV channel: > 40 dB
- » Directivity: > 50 dB
- » Return loss \*\*: > 45 dB

\* Insertion loss includes connectors, wavelength-, time-, and polarisation dependent loss.

\*\* Return loss specified without connectors.

### Features

- » Indoor wall-mount fiber termination unit for Genexis Hybrid active modules
- » Ability to slide-in the Universe CATV module (hot-pluggable)
- » Terminate up to 4 fibers:
  - 1 optical interface compatible with Universal Fiber Termination Unit standard
  - 1 optical interface towards Universe CATV receiver
  - 2 patchable fibers via mountable duplex LC (or simplex SC) adapter
- » Two cable entry points: bottom and top
- » Multiple options to fit gas blocker
- » Detachable fiber management cassette
- » Cable can be mounted on back-plate or directly in fiber cassette
- » Pull relief for the fiber ducts/cables and fibers
- » Two types of splice holder provided
- » Fiber management unit sealable with screw and sealing sticker to prevent unauthorised access
- » Optional blind cover for passive installation only
- » Integrated dust caps in CATV-slide and blind cover to protect fiber connector against dust and dirt

- » Safety lid to guarantee eye-safety
- » Open network termination interface enables easy installation of active modules
- » Installed active modules sealable by separate tags for both optical interfaces
- » Option to daisy-chain two Universe Fiber Termination Units
- » Pre-installed fiber pigtails (optional)
- » Pre-installed WDM-filter for data and CATV on a single fiber (optional)

### Emission and safety regulations

- » CE approved
- » Safety: IEC EN 60950
- » Laser safety:
  - IEC EN 60825-1: Class 1 laser product
  - IEC EN 60825-2: Hazard level 1
- » Emission: EN 55022, Class B
- » Immunity: EN 55024

## Universe product models

Model	Blind cover	WDM-filter	Pre-installed pigtails
Universe-110	-	-	-
Universe-112	yes	-	-
Universe-130	-	yes	-
Universe-140	-	-	yes
Universe-142	yes	-	yes