

# Broadband PON Network Single-Line Dual-Access Device FW-P801

## Assist in difficult scenarios of XGPON/GPON installation

### Single line dual access - applicable scenarios

The national standard (strong standard) community with a single fiber entering the home, one room and a single user have multiple broad bands and one room has multiple tenants and multiple widths.

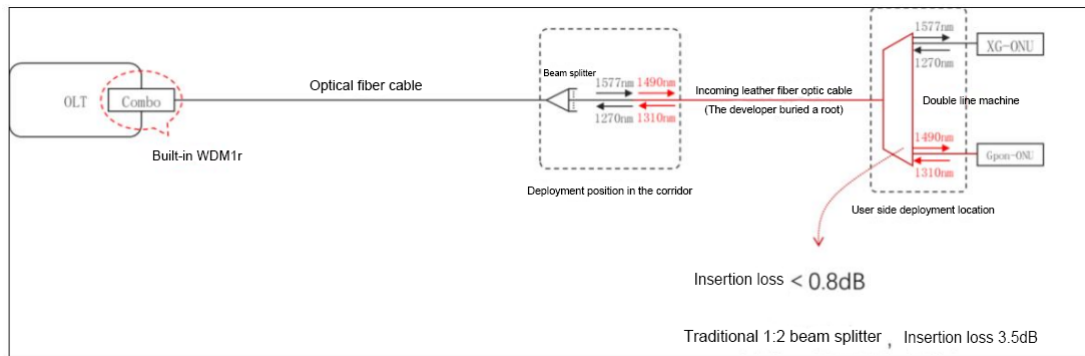
The scenario of fast grid connection/transfer of broadband with and one room before expiration solves the problem of difficulty in the second entry of the leather cable  
Use the existing home line to complete the broadband rapid installation.

### Product diagram

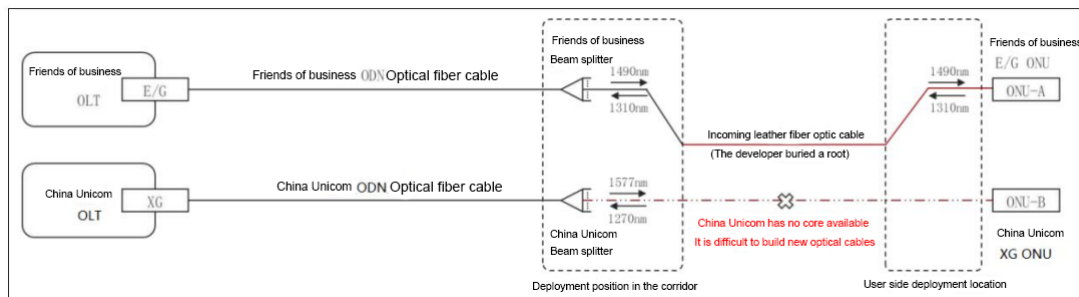


### Single line dual access - opening two broadband scenarios with the same operator

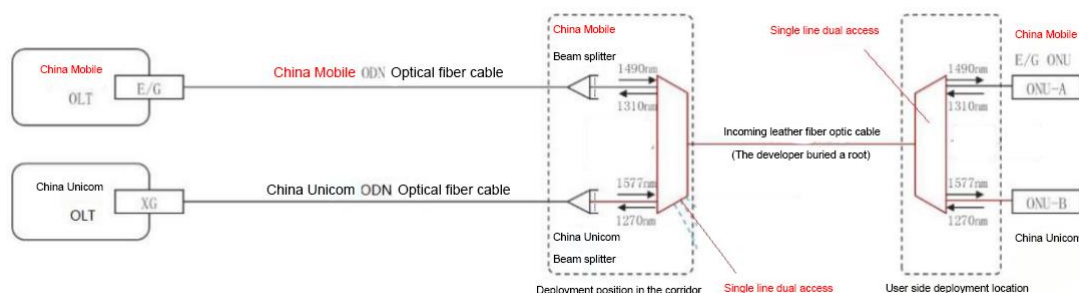
Utilize one core in home optical cable to provide two broadband services simultaneously for business building enterprise customers and multi tenant households.



## Single Line Dual Access - Single User Opening Two Broadband Applications from Different Operators Explanation



As shown in the figure above, many of the national standard communities are optical fiber hidden pipes entering the home, and it is difficult to re-pull the cables, and the direct fusion of optical cables and leather wires from the resident network computer room to the user's home cannot be expanded, and the optical cables and leather wires need to be re-deployed.



After using single-line dual access, regardless of whether the mobile is covered by EPON/GPON or 10GEPON (symmetrical type)/XGPON, 1491/1310 channels or 1577/1270 channels can be released through "single-line dual access" to carry out simultaneous mobile and broadband access to the home. In order to meet the needs of single-user multi-broadband in one room, multi-tenant multi-broadband in one room, and broadband in one room before expiration, fast grid connection/transfer. The

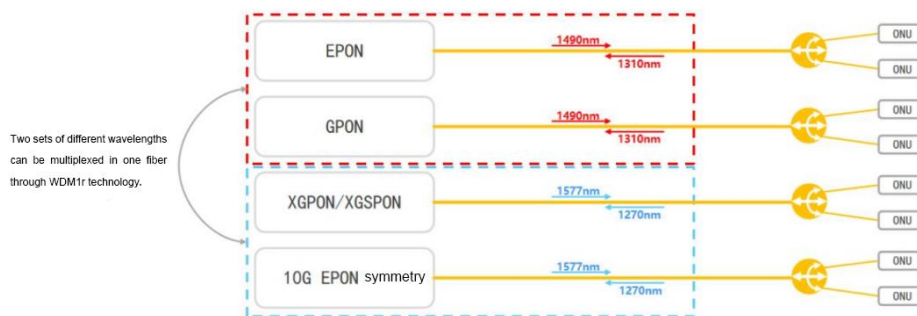
single-line dual-access equipment has three forms: cassette insert box, module box, and steel pipe type, and any combination of A-B ends can be connected, which can meet the installation needs of scenarios such as corridor fiber distribution boxes, corridor shafts, and optical delivery box trays.

## Single-line dual-access - product features:

**Easy to install and concealed:** Single-line dual-access is a passive device with a low failure rate; Small in size and can be used in a variety of ways fast installation in complex environment, strong concealment.

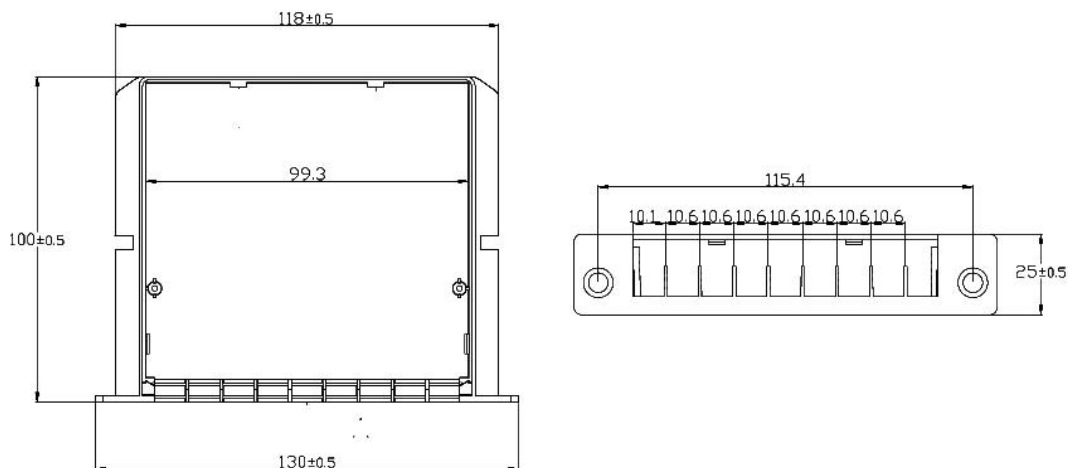
**Low insertion loss:** The insertion loss of single-line dual-access devices is  $< 1.6\text{dB}$ , and the line margin is within the range after going online.

## Single-line dual access - technical feasibility



## Product structure diagram

### ABS insert case



## Remote 1U rack

The remote 1U rack is a 3-slot, 1U-high passive rack, which is suitable for inserting 3 remote combiner splitters, which can realize the compact installation of the remote combiner and splitter and save space in the equipment room. The 1U rack can be installed in a 19-inch cabinet.。

- **Size: 1U, 44 mm (H) × 438 mm (W), × 132 mm (D)**

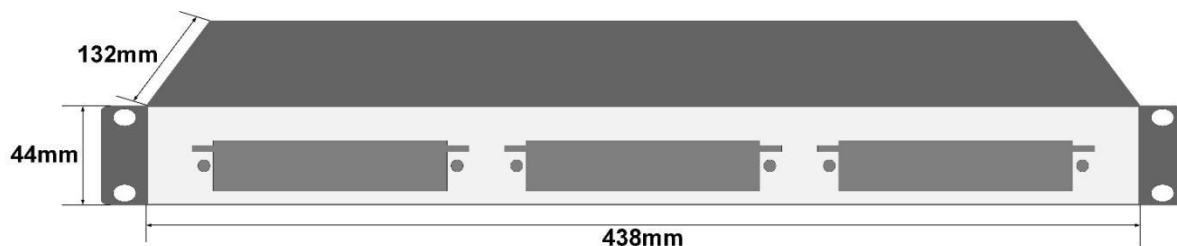


Figure 2.2.1 View of a remote 1U rack

## Remote 3U rack

The 3U rack is a 16-slot, 3U-high passive rack, which is suitable for vertically inserting 16 remote combiners and splitters, which can realize the compact installation of remote combiners and save space in the computer room. The 3U rack can fit in a 19-inch cabinet.。

- **Size: 3U, 120 mm (H), 430 mm (W ×), × 133 mm (D)**

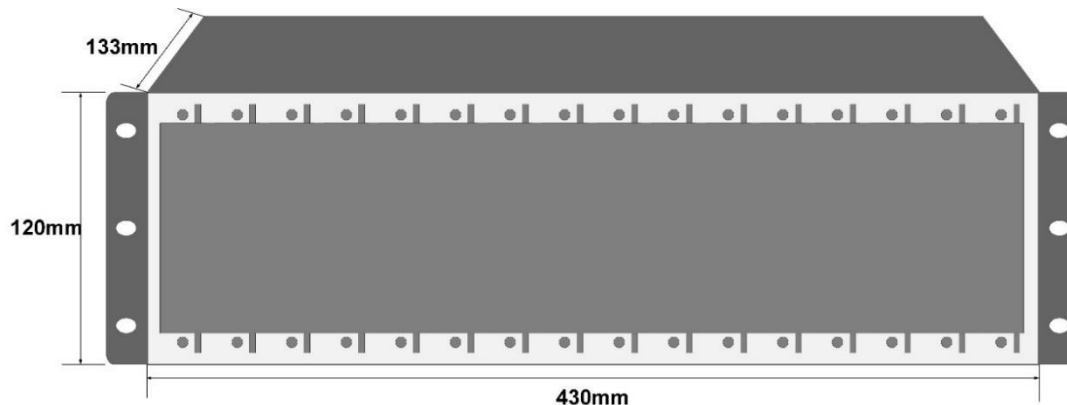


Figure 2.2.2 Rack view of the remote OPC1000-16

## Remote outdoor boxes

The outdoor dust-proof box is a special box for outdoor wall-mounted or pole-mounted remote WDM system, which supports 1 or 2 built-in remote combination splitters, meets the requirements of IP67 standards, has a lightweight structure and is easy to install.

- **Size: 365 mm (length) × 290 mm (width) × 100 mm (height)**

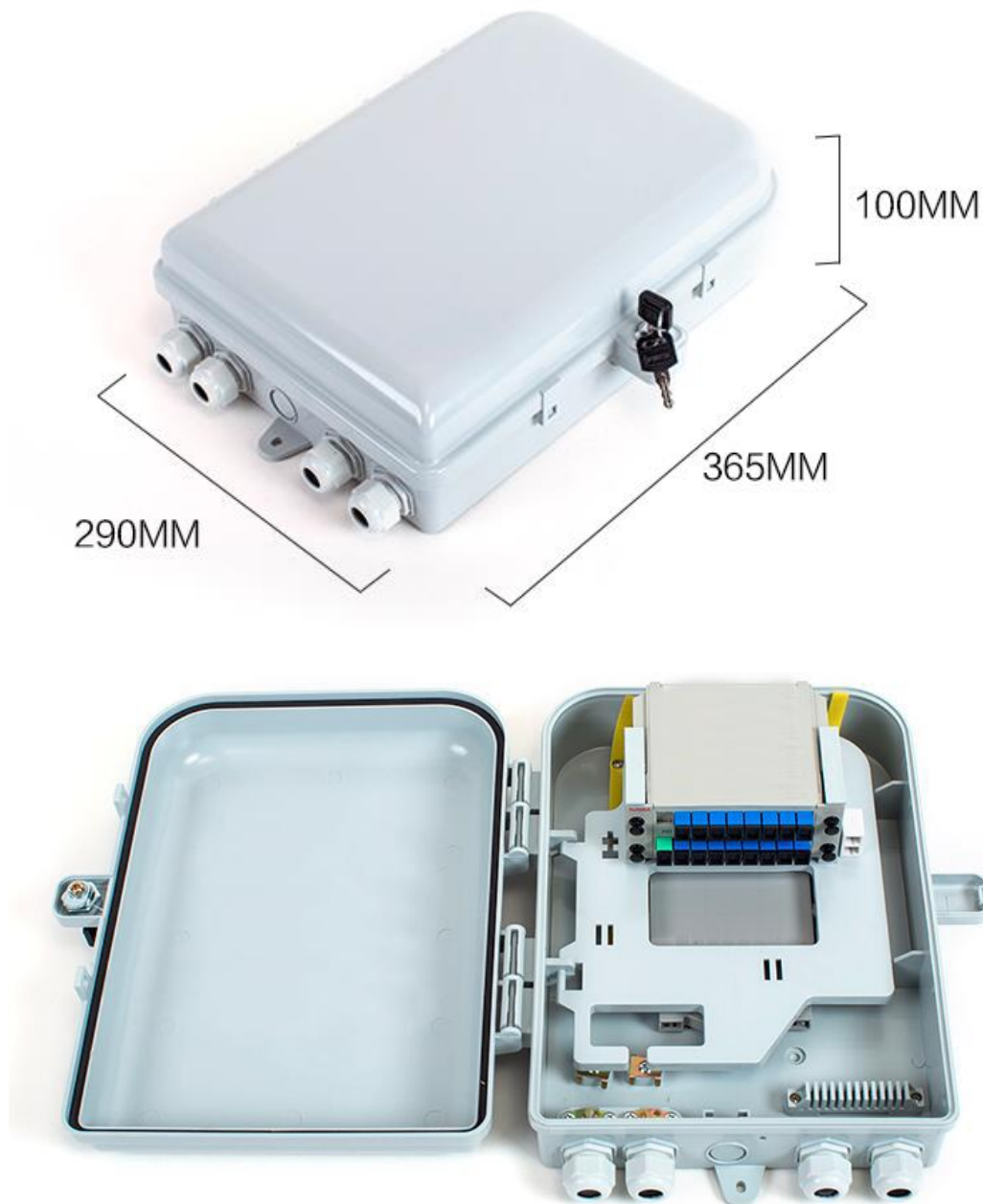


Figure 2.2.3 View of the remote outdoor dust box