ZUOYEAL

TECHNICAL DATA SHEET

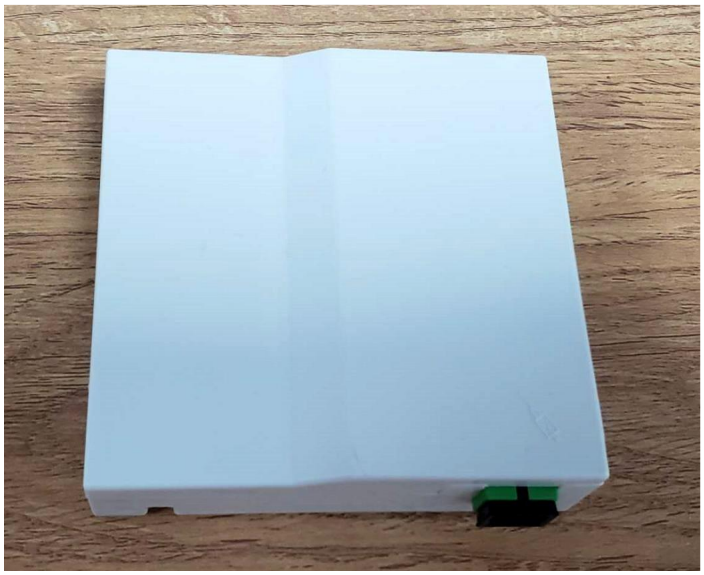
ACCESS TERMINAL BOX · FIBER OUTLET

1 PORT
ATB BOX

MODEL **ZY-MB-1B**

Access terminal box for FTTH indoor drop-cable termination, one SC simplex adapter, IP-45 protection.

PORTS	SIZE
1 SC	**86 × 86 mm**
PROTECTION	CAPACITY
IP-45	**1 core**



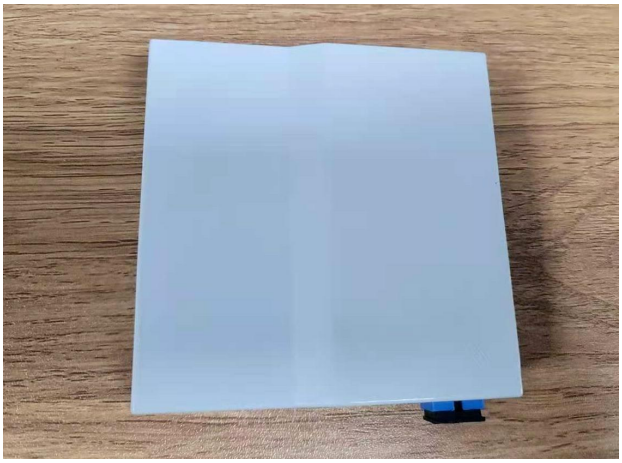
01 OVERVIEW

Description & features

The Access Terminal Box holds up to 1 subscriber and is used as the termination point where a drop cable connects to a patch cable in FTTH indoor applications. It integrates termination, storage and cable connection in one solid protective box.

FEATURES

- Used with different kinds of modules and applied to the working area subsystem.
- Embedded surface frame: easy to install and disassemble, protective door, dust free.
- Dust-proof design with IP-45 protection level.
- Manages fibres within a reasonable bend-radius condition.
- Easy to maintain and to extend the capacity.
- Suitable for fusion splice or mechanical splice.
- Embedded type surface, easy for installation and removal.



Closed box with SC/UPC adapter

AT A GLANCE

ITEM	VALUE	ITEM	VALUE
Model	ZY-MB-1B	Adaptor	SC simplex
Size	86 × 86 × 22 mm	Insertion loss	≤ 0.2 dB
Capacity	1 core	Temperature	−40 to +85 °C

02 PERFORMANCE

Performance index

ITEM	PARAMETERS
Model	ZY-MB-1B
Size (L × W × H)	86 × 86 × 22 mm
Application	3.0 × 2.0 mm drop cable or indoor cable
Fiber diameter	125 μm (G.652 & G.657)
Tight cladding diameter	250 μm & 900 μm
Mode of application	Single mode & duplex mode
Tensile strength	> 50 N
End-use temperature	−40 °C to +85 °C
Adaptor	SC simplex
Insertion loss	≤ 0.2 dB (1310 nm & 1550 nm)
Output	1 SC
Max capacity	1 core

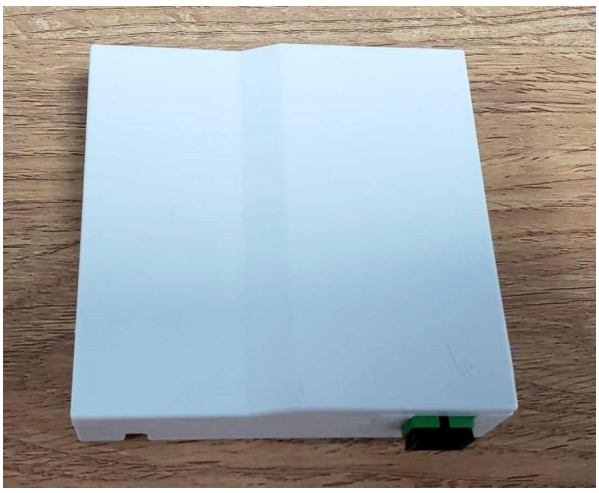
ORDERING INFORMATION

ITEM	OPTIONS
Model	ZY-MB-1B
Adapter option	SC/APC (green) or SC/UPC (blue)
Output	1 SC simplex port
Delivery	Box, 3M 9448A double-coated tape, expansion bolts Φ5.5 × 30

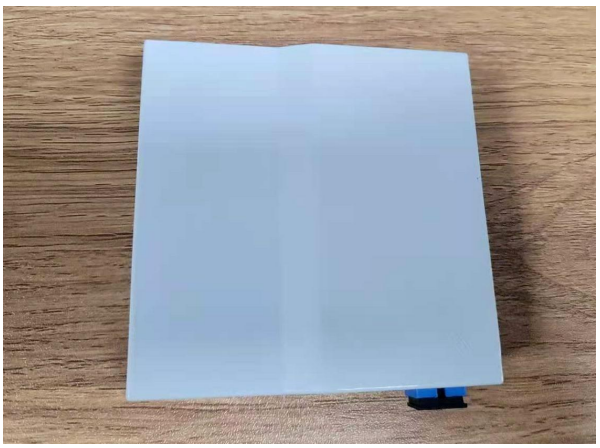
03 STRUCTURE

Product structure & adapter options

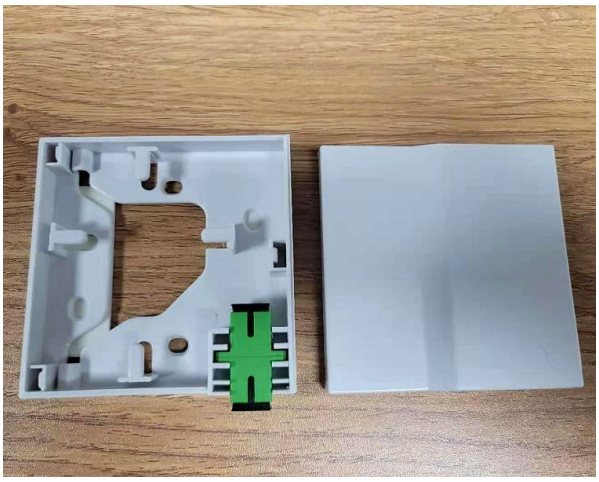
The same housing is supplied with an SC/APC or SC/UPC adapter; the cover is removable for splicing and maintenance.



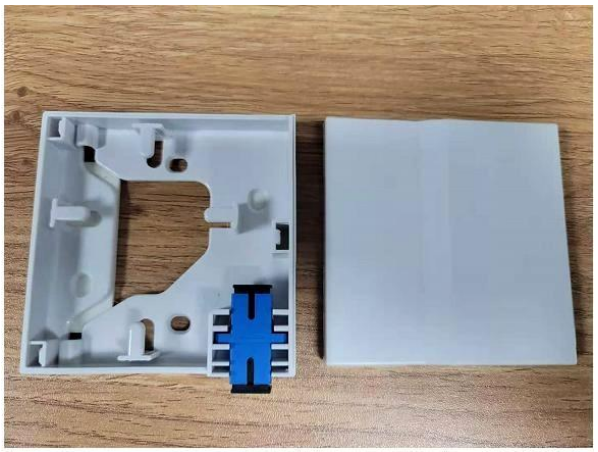
Closed box with SC/APC adapter (green)



Closed box with SC/UPC adapter (blue)



Housing opened — base and cover (APC)

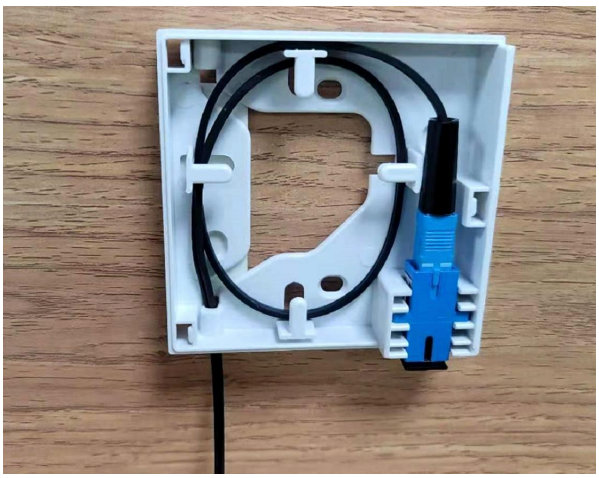


Housing opened — base and cover (UPC)

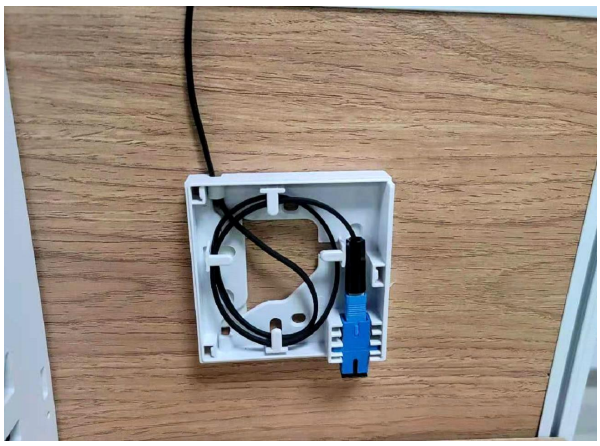
04 CABLE WAYS

Cable entry & fibre routing

Cable may enter from the bottom (WAY 1) or from the top (WAY 2); in both cases the cable is wound a few turns inside the box to keep the bend radius.



Splice tray: 900 µm pigtail coiled on the radius limiter



Cable entry from the top, drop cable coiled inside (WAY 2)



0.9 mm pigtail terminated on the SC/UPC adapter

WAY 3: splicing — fusion splice or mechanical splice inside the tray.

05 INSTALLATION

Wall mounting

Drill 2 holes in the wall according to the dimensions in the table, insert the expansion bolt Φ5.5 × 30, place the box over the holes and fasten with the bolts.



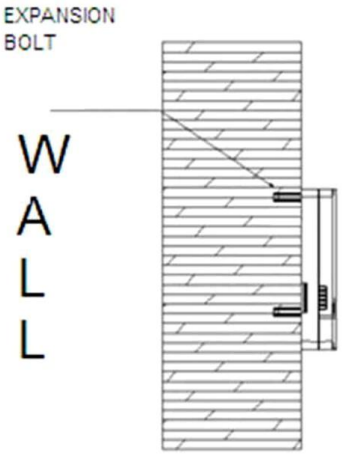
Mounting kit: 3M 9448A double-coated tissue tape and screws



Back view — fixation points and cable entry

MOUNTING STEPS

- Mark and drill the two fixing holes (expansion bolt Φ5.5 × 30).
- Insert the expansion bolts and align the box with the holes.
- Fasten the box with the bolts; alternatively use the 3M 9448A double-coated tape.
- Route the drop cable through the entry, coil it inside and close the cover.



Wall-mounted installation — section view

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ZUOYEAL TECHNOLOGY

Connecting More, With Fiber

This datasheet describes the ZY-MB-1B access terminal box at the time of publication. Dimensions and configurations may change without notice; confirm current values with ZUOYEAL before ordering.

ZY-MB-1B · 86 × 86 × 22 mm · FTTH

Connecting More, With Fiber