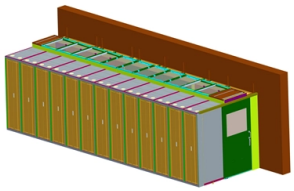
China Unicom with optical splitter



Overview

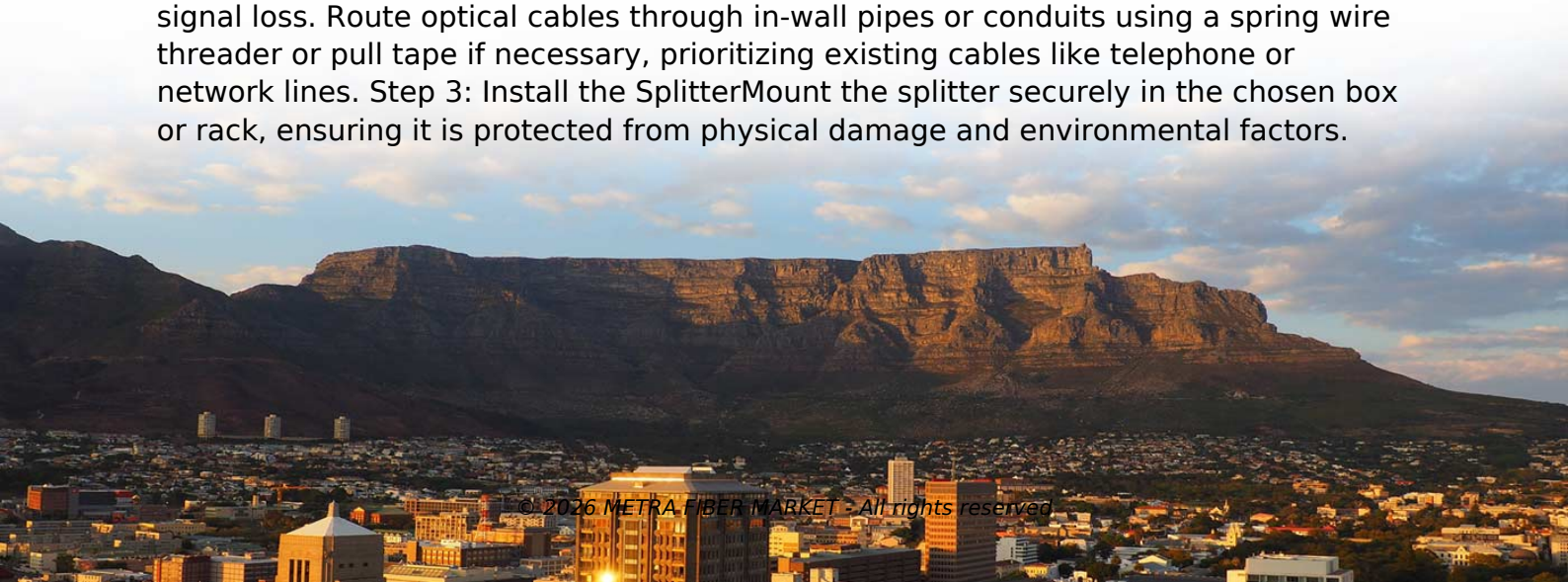
CHINA INTERNATIONAL TENDERING CO., LTD. has invited bids for 2026-2027 China Unicom Fuxin Branch Optical Splitter Box Centralized Procurement Project in China.

Key Takeaways

To add a China Unicom optical splitter, install it in a designated distribution box, connect the input fiber from the central office or optical terminal, route output fibers to user endpoints, and test signal strength to ensure proper operation. Step 1: Choose the Splitter Type and LocationOptical splitters can be primary or secondary. Primary splitters are typically installed in central office rooms, cell computer rooms, or optical transfer boxes, while secondary splitters are placed in optical distribution boxes or community crossover boxes for residential deployment.

For indoor residential setups, consider locations such as the building's weak current well, floor wiring box, or corridor distribution points. Ensure the splitter type (e.g., PLC or FBT) matches the network requirements. Step 2: Prepare the Fiber CablesVerify that the drop cable RX optical power meets China Unicom standards before installation.

Remove protective caps from SC/APC connectors and clean fiber ends to prevent signal loss. Route optical cables through in-wall pipes or conduits using a spring wire threader or pull tape if necessary, prioritizing existing cables like telephone or network lines. Step 3: Install the SplitterMount the splitter securely in the chosen box or rack, ensuring it is protected from physical damage and environmental factors.



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Connect the input fiber from the optical network terminal (ONT) or upstream distribution box to the splitter input port. Connect output fibers to the corresponding user endpoints or secondary splitters if cascading is required. Use proper adapters and connectors (SC/APC, LC, etc.) to maintain low insertion loss.

Step 4: Manage Signal LossEach splitter introduces some signal loss (e.g., a 1x2 splitter typically causes ~3. 5 dB loss per output),. If cascading splitters, calculate cumulative loss and consider using a signal amplifier for long-distance or high-density deployments.

Test optical power at each output to ensure it remains within acceptable limits. Step 5: Test and ConfirmAfter installation, test Wi-Fi, network port speeds, IPTV, and voice services to confirm proper operation. Obtain customer confirmation for residential deployments.

Ensure all cables are neatly organized, labeled, and secured to simplify future maintenance.

Safety Precautions

Disconnect the general circuit breaker before handling fiber cables to avoid electric shock. Wear insulation slip-proof gloves during installation. Avoid bending fibers sharply to prevent breakage or signal degradation.

By following these steps, you can successfully add a China Unicom optical splitter, ensuring efficient signal distribution, minimal loss, and reliable network performance for FTTH deployments.

Article Content

China Unicom Fuxin Tender in China, ID 534868588

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