
About This Document

Purpose

This document serves as a guide for base station installation personnel. It describes the requirements for the space and position of the equipment room, working environment, power system, lightning protection and grounding system, and transmission.

Related Versions

The following table lists the versions of the product described in this document.

Product Name	Version
BTS3012	V300R004
	V300R005
	V300R006

Intended Audience

This document is intended for:

- Base station installers

Update History

For details, refer to [Changes in BTS3012 Site Preparation Guidelines](#).

Organization

[1 Safety Precautions](#)

This part describes the safety precautions you must take when installing and maintaining the network equipment.

[2 Introduction to the BTS3012 Site](#)

This part describes the components of a BTS3012 site as well as the application scenarios and specifications of the BTS3012.

[3 Equipment Room](#)

This part describes the requirements for the site selection, installation space and position, construction of the equipment room, and working environment.

4 Power System

This part describes the requirements for the input power supply, DC power supply, and high frequency on/off rectifier.

5 Lightning Protection and Grounding System

This part describes the lightning protection and grounding system and the requirements for the grounding of cables and other facilities.

6 Accessories

The accessories include the cabling racks, cabling troughs, grounding bars, transmission equipment, DDF, GPS/GLONASS, and feeder windows.






7 Checklist for Site Preparations

This part lists the items to be checked, such as site location, power supply, grounding cables, antenna system, and transmission equipment, for site preparations.

Conventions

1. Symbol Conventions

The following symbols may be found in this document. They are defined as follows

Symbol	Description
 DANGER	Indicates a hazard with a high level of risk that, if not avoided, will result in death or serious injury.
 WARNING	Indicates a hazard with a medium or low level of risk which, if not avoided, could result in minor or moderate injury.
 CAUTION	Indicates a potentially hazardous situation that, if not avoided, could cause equipment damage, data loss, and performance degradation, or unexpected results.
 TIP	Indicates a tip that may help you solve a problem or save your time.
 NOTE	Provides additional information to emphasize or supplement important points of the main text.

2. General Conventions

Convention	Description
Times New Roman	Normal paragraphs are in Times New Roman.

Convention	Description
Boldface	Names of files,directories,folders,and users are in boldface . For example,log in as user root .
<i>Italic</i>	Book titles are in <i>italics</i> .
Courier New	Terminal display is in Courier New.

3. Command Conventions

Convention	Description
Boldface	The keywords of a command line are in boldface .
<i>Italic</i>	Command arguments are in <i>italic</i> .
[]	Items (keywords or arguments) in square brackets [] are optional.
{ x y ... }	Alternative items are grouped in braces and separated by vertical bars.One is selected.
[x y ...]	Optional alternative items are grouped in square brackets and separated by vertical bars.One or none is selected.
{ x y ... } *	Alternative items are grouped in braces and separated by vertical bars.A minimum of one or a maximum of all can be selected.
[x y ...] *	Alternative items are grouped in braces and separated by vertical bars.A minimum of zero or a maximum of all can be selected.

4. GUI Conventions

Convention	Description
Boldface	Buttons,menus,parameters,tabs>window,and dialog titles are in boldface . For example,click OK .
>	Multi-level menus are in boldface and separated by the ">" signs. For example,choose File > Create > Folder .

5. Keyboard Operation

Convention	Description
Key	Press the key.For example,press Enter and press Tab .
Key1+Key2	Press the keys concurrently.For example,pressing Ctrl+Alt+A means the three keys should be pressed concurrently.
Key1,Key2	Press the keys in turn.For example,pressing Alt,A means the two keys should be pressed in turn.

6. Mouse Operation

Action	Description
Click	Select and release the primary mouse button without moving the pointer.
Double-click	Press the primary mouse button twice continuously and quickly without moving the pointer.
Drag	Press and hold the primary mouse button and move the pointer to a certain position.