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# About This Document

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## Purpose

This document describes the procedures for installing the cabinet, boards, modules, and cables of the BTS3012 and provides a checklist for the hardware installation.

## Versions

The following table lists the product versions related to this document.

Product Names	Versions
BTS3012	V300R004
	V300R005
	V300R006

## Intended Audience

This document is intended for:

- Technical support engineers
- BTS installers

## Change History

Refer to the [Changes in BTS3012 Installation Guide](#).

## Organization

### 1 Safety Precautions

This section describes the safety precautions to be taken while installing and maintaining the Huawei network equipment.

### 2 BTS3012 Cabinet

The BTS3012 cabinet consists of the common subrack, DAFU subrack, DTRU subrack, FAN subrack, transmission subrack, and set-on-top subrack. The BTS3012 cabinet, featuring a modular structure, is designed in compliance with the IEC297 standard. It processes the signals within the BTS.

### 3 Space and Location Requirements of the BTS3012

The equipment layout must be reasonable, feasible, and neat. The BTS3012 cabinet installation modes are single-cabinet installation, multi-cabinet installation, and BTS3012-BTS312 cabinet installation.

#### 4 Preparations for Installing the BTS3012

This part describes the preparations for installing the BTS3012. Before installing the BTS3012, you need to check the items in the cases and keep the installation tools ready.

#### 5 Installing the BTS3012

This task describes how to install the BTS3012. The task consists of installing the cabinet, boards and modules, and cables of the BTS3012.

#### 6 Installing the BTS3012 Cabinet

This task describes how to install the BTS3012 cabinet. When installing the BTS3012 cabinet on site, choose different installation methods based on different conditions in the equipment room.

#### 7 Installing the Power Cables and Equipotential Cables of the BTS3012

This task describes how to install the power cables and equipotential cables of the BTS3012.

#### 8 Installing the BTS3012 Boards and Modules

This task describes how to install the boards and modules in the BTS3012 cabinet.

#### 9 Installing the BTS3012 Cables

This task describes how to install the BTS3012 cables. The cables are classified into power cables, PGND cables, Busbar power cables, E1 cables, and signal cables.

#### 10 Installing the BTS3012 Sensors

This task describes how to install the BTS3012 sensors. The sensors consist of the door control sensor, water sensor, smoke sensor, infrared sensor, and humidity and temperature sensor.



#### 11 Checking the Hardware Installation of the BTS3012




This task describes how to check the hardware installation of the BTS3012. This task consists of equipment installation check, cable check, and installation environment check.

## Conventions

### 1. Symbol Conventions

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

Symbol	Description
 <b>DANGER</b>	Indicates a hazard with a high level of risk that, if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a hazard with a medium or low level of risk which, if not avoided, could result in minor or moderate injury.

Symbol	Description
 <b>CAUTION</b>	Indicates a potentially hazardous situation that, if not avoided, could cause equipment damage, data loss, and performance degradation, or unexpected results.
 <b>TIP</b>	Indicates a tip that may help you solve a problem or save your time.
 <b>NOTE</b>	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.
<b>Boldface</b>	Names of files,directories,folders,and users are in <b>boldface</b> . For example,log in as user <b>root</b> .
<i>Italic</i>	Book titles are in <i>italics</i> .
Courier New	Terminal display is in Courier New.

## 3. Command Conventions

Convention	Description
<b>Boldface</b>	The keywords of a command line are in <b>boldface</b> .
<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
<b>Boldface</b>	Buttons, menus, parameters, tabs, window, and dialog titles are in <b>boldface</b> . For example, click <b>OK</b> .
>	Multi-level menus are in <b>boldface</b> and separated by the ">" signs. For example, choose <b>File</b> > <b>Create</b> > <b>Folder</b> .

## 5. Keyboard Operation

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