About This Document

Overview

This document provides reference for you to plan and deploy the BTS3012. You can obtain information about subracks of the BTS3012 cabinet, categories of cables, specifications and installation positions of connectors, and configuration, functions and specifications of boards and other parts.

Versions

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

Product Names	Versions
BTS3012	V300R004
	V300R005
	V300R006

Intended Audience

- BTS012 installers
- Site maintainers

Change History

For information on the revision of the document, refer to the revision description in the BTS3012 Product Description.

Organization

1 Components of the BTS3012 System

The BTS3012 system consists of the BTS3012 cabinet, antenna subsystem, site maintenance equipment, and auxiliary equipment.

2 BTS3012 Cabinet

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

3 BTS3012 Auxiliary Equipment

The BTS3012 auxiliary equipment include Sidepower, EMU, and EAC-2.

4 Boards and Modules of the BTS3012

The BTS3012 boards include DTMU, DEMU, DATU, DCSU, DCCU, DCMB, DELC, DMLC, DSAC, DCTB, and DTRB. The modules include DTRU, DCOM, DDPU, DFCU, DFCB, and FAN Box.

5 BTS3012 Cables

This part describes the functions, structure, pins, and installation positions of BTS3012 cables.

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

3. Command Conventions

Convention	Description
Boldface	The keywords of a command line are in **boldface**.
Italic	Command arguments are in *italic*.
[ ]	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.

Action	Description
Drag	Press and hold the primary mouse button and move the pointer to a certain position.