

# 8 Combined Cabinets and Cabinet Groups of the BTS3012

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The BTS3012 can support more TRXs through combined cabinets and cabinet groups. One BTS3012 cabinet supports up to 12 TRXs while multiple cabinets support up to 36 TRXs.

## Definition of Combined Cabinets and Cabinet Groups

- Combined Cabinets

One BT3012 cabinet supports up to 12 TRXs. Combined cabinets are used when 12–24 TRXs are required for the synchronized cells. The combined cabinets of the BTS3012 consist of one main cabinet and one extension cabinet. The cabinet configured with the DTMU is the main cabinet while the cabinet not configured with the DTMU is the extension cabinet.

The extension cabinet and the main cabinet share the DTMU through which the clock, data, and signals are sent from the main cabinet to the extension cabinet.
- Cabinet Groups

The BTS3012 cabinet groups are used when the number of TRXs required for the synchronized cells exceeds 24. One cabinet group consists of one main cabinet or two combined cabinets. The cabinet group that provides synchronized clock is called main cabinet group. The other cabinet groups are called extension cabinets. The main cabinets from the main cabinet group and the extension cabinet groups can be configured with one or two DTMUs. One BTS3012 cabinet group supports up to 24 TRXs. A maximum of three cabinet groups can be used to implement the S12/12/12 cell configuration. The BTS3012 can be grouped with the BTS312. In this case, the BTS3012 serves as the main cabinet group.

The E1 cables are connected to the DTMUs from the main cabinets of different cabinet groups. The DTMU from the main cabinet of the main cabinet group sends the clock and signals to the main cabinets of the extension cabinet groups. Then, the main cabinets from the extension cabinet groups send these signals to the extension cabinets of the extension cabinet groups, respectively.

## Implementation of Combined Cabinets and Cabinet Groups

The BTS3012 supports a maximum of two combined cabinets and three cabinet groups. The combined cabinets can be installed side by side or rear to rear. The space between two combined cabinets must be less than 2 m. For details about the configuration principle about the BTS3012, refer to [12 Configuration of the BTS3012/BTS3012AE](#).

For details about the clock signal flow for the combined cabinets or cabinet groups, refer to [10 Synchronization of the BTS3012 Clock](#). For details about the data signal flow and control signal flow for the combined cabinets or cabinet groups, refer to [11.4 Signal Flow of BTS3012/BTS3012AE Combined Cabinets and Cabinet Groups](#). For details about the signal flow for the combined cabinets or cabinet groups, refer to [subsystem](#).