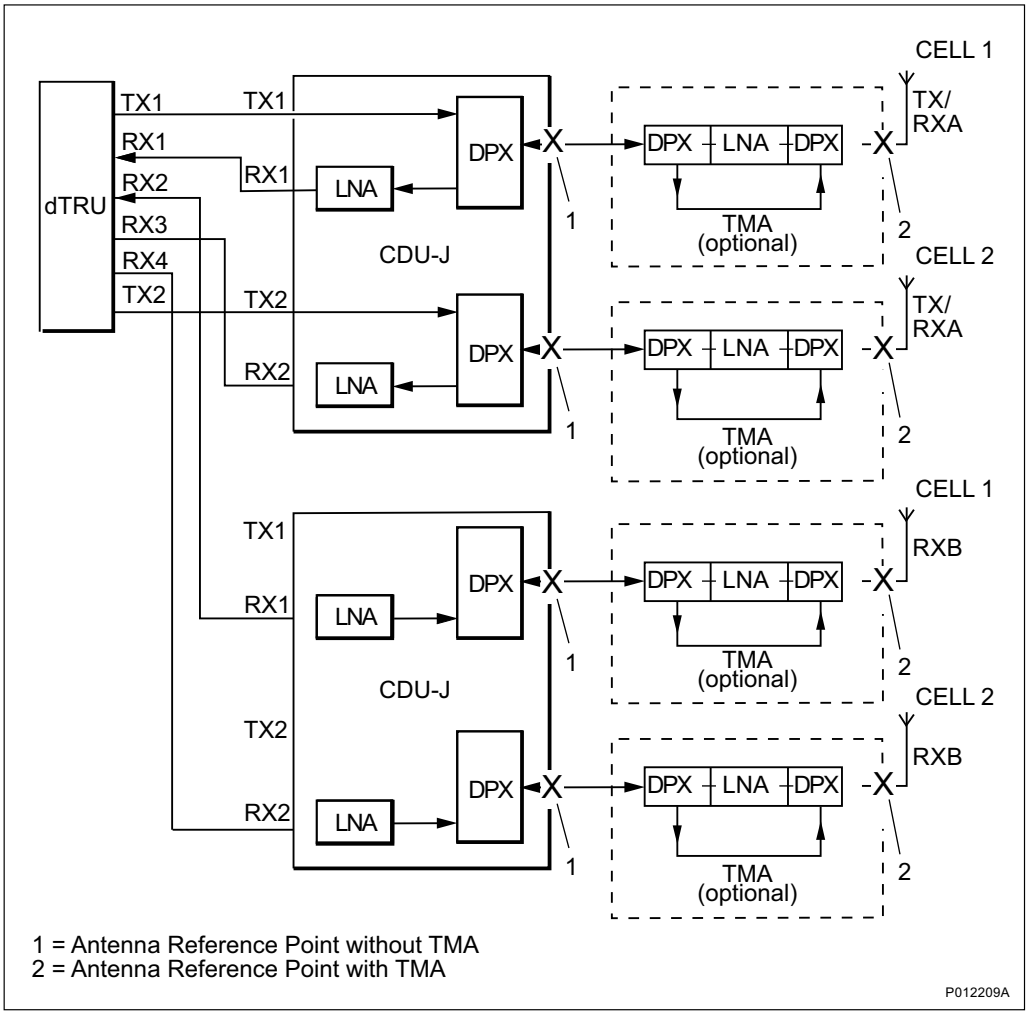
RBS 2207
Radio Configurations
Description

This document describes the radio configurations for RBS 2207.



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1 Introduction

The radio configurations described are valid for RBS 2207, equipped with a maximum of three dTRUs/six TRXs per cabinet. The descriptions include basic configurations and site cell configurations.

1.1 Mobile Telephone System

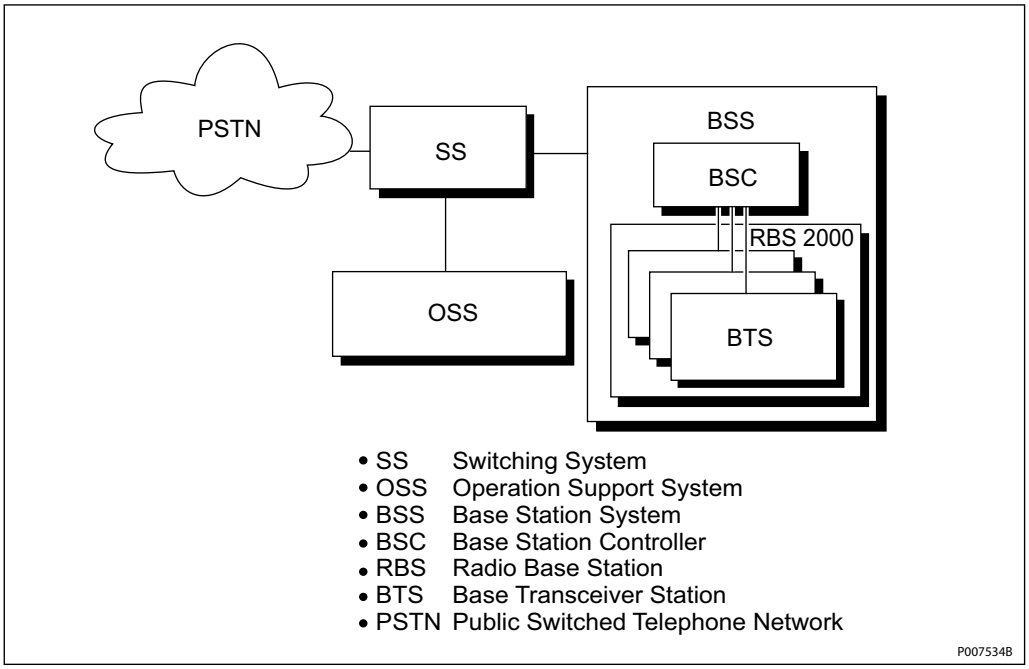

Figure 1 RBS 2000 in the Ericsson GSM system

The Base Station System (BSS) contains two functional entities; the Base Station Controller (BSC) and the Base Transceiver Station (BTS).

The BSC handles radio-related functions such as handover, management of the radio network resources, and cell configuration data. It also controls radio frequency power levels in RBSs and MSs.

The BTS is a network component which serves one cell, and is controlled by the BSC. The BTS consists of the radio transceivers and all the digital signal processing equipment. RBS 2000 contains equipment for one to three BTSs.

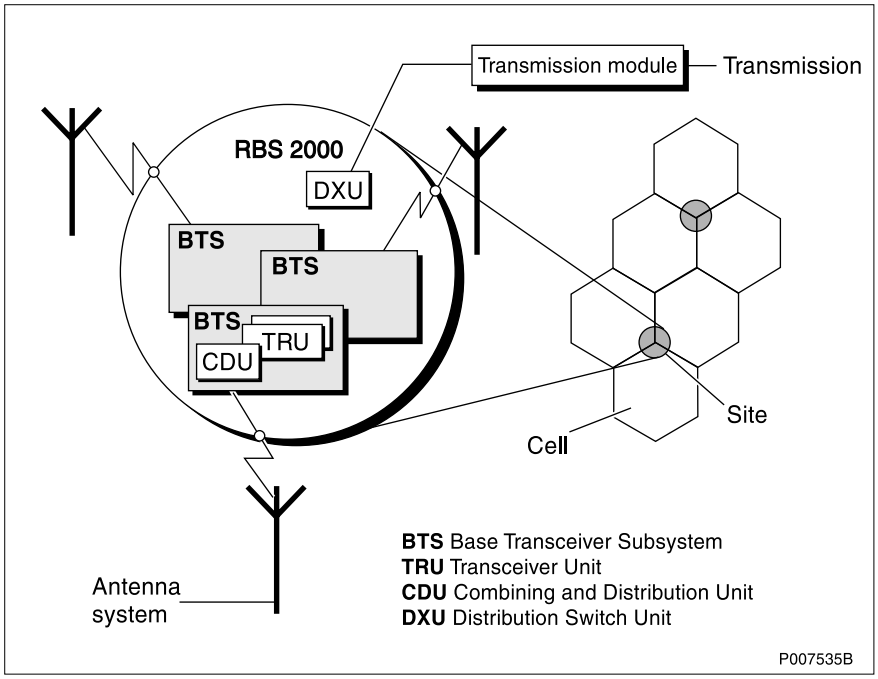

Figure 2 An example of an RBS 2000 servicing a three-cell site

1.2 Radio Base Station

The Radio Base Station 2000 (RBS 2000) is Ericsson's second generation of RBSs, developed to meet the GSM specifications for BTSs.

2 References

3GPP TS 45:005 Digital cellular telecommunications system (Phase 2+); Radio transmission and reception (3GPP TS 45:005 Release 4).

3GPP TS 45:008 Digital cellular telecommunications system (Phase 2+); Radio subsystem link control (3GPP TS 45:008 Release 4).

3 Definitions

Tower Mounted Amplifier (TMA)

The TMA compensates for signal loss in the receiver antenna cables, reduces system noise and improves uplink sensitivity. The TMA can consist of a duplex filter. Duplex is the function that allows communication in two directions (sending and receiving) on one channel.

The TMAs used are Dual Duplex TMA (ddTMA).

Antenna Reference Point

The antenna reference point is the point where the radio signal crosses the RBS border, that is the connector for the antenna feeder. See the figure below.

Note: The TMA is inside the RBS border.

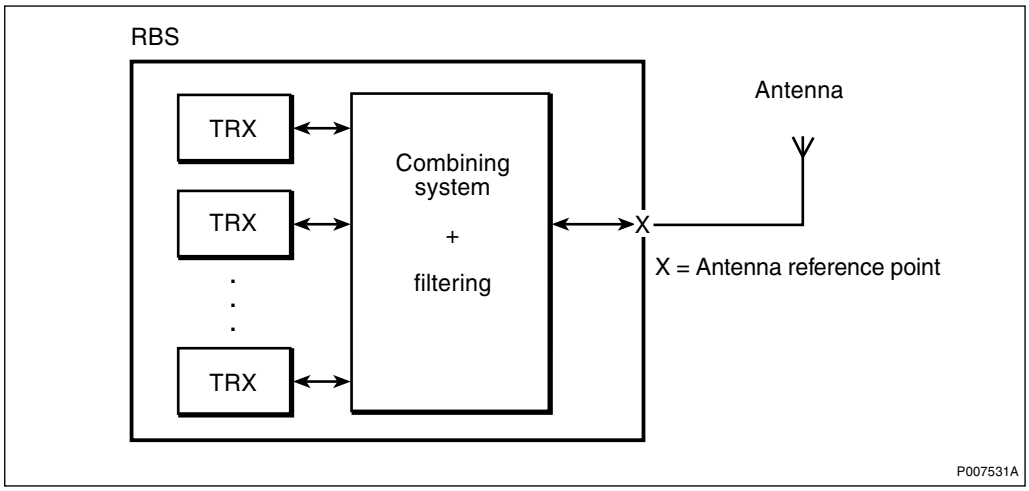

Figure 3 Antenna reference point

Antenna System

The antenna system comprises all RF transmission and reception antennas, directed to cover the same area or multi-casting configurations.

Base Transceiver Station (BTS)

A BTS is a unit operating on a set of frequencies in one cell.

Basic Configuration

A basic configuration is a specified set of transceivers, CDUs and (in some cases) TMAs, connected to one antenna system.

A basic configuration can be multiplied or used in combination with other basic configurations, in order to build the necessary site equipment.

Radio Base Station (RBS)

An RBS constitutes all the equipment in an Ericsson base station, and may comprise several BTSs.

Each RBS has one DXU, which consists of a maximum of six TRXs.

Site Cell Configuration (SCC)

The SCC is a geographical concept describing how an area around one RBS site is divided into radio traffic areas. The following types of site are defined:

Omni-site Radio coverage in one 360 degree sector, that is in one area, using one BTS.

2-sector site Radio coverage in two sectors, that is two distinct areas, using two BTSs.

3-sector site Radio coverage in three sectors, that is three distinct areas, using three BTSs.

3.1 Cabinet Types

RBS 2207 Indoor cabinet with a maximum of three dTRUs/six TRXs per cabinet

4 Frequency Bands

GSM 800	Uplink:	824 – 849 MHz
	Downlink:	869 – 894 MHz
P-GSM 900	Uplink:	890 – 915 MHz
	Downlink:	935 – 960 MHz
E-GSM 900	Uplink:	880 – 915 MHz
	Downlink:	925 – 960 MHz
GSM 1800	Uplink:	1710 – 1785 MHz
	Downlink:	1805 – 1880 MHz
GSM 1900	Uplink:	1850 – 1910 MHz
	Downlink:	1930 – 1990 MHz

These frequency bands are supported by the configurations described in this document.

5 Basic Configurations

The GSM 800, P-GSM 900, E-GSM 900, GSM 1800 and GSM 1900 configurations meet the GSM requirements, except where otherwise stated.

The radio performance of a configuration is defined at the TX and RX antenna reference points at the RBS border. There is an X close to every reference point in the following figures. The RBS border is not included in the figures.

The equivalent output power with SW power boost (TX diversity) configured is the original output power specified for the basic configuration, increased by typically 3 dB (if separate TX antennas are used). The configurations that support SW power boost are listed in *Section 6.5 on page 14.*

Functional views of radio signal paths for various configurations are shown in *Figure 4 on page 8* up to and including *Figure 7 on page 10.* Only components necessary to illustrate the configuration are shown.

5.1 dTRU Topology

Configuration of Hybrid Combiner

The dTRU can be configured with or without the hybrid combiner, using two cables external to the dTRU, *see Figure 4 on page 8.*

Later versions of the dTRU do not use external hybrid cables, *see Figure 5 on page 8.*

RX Signals Distributed from Two Ports

The RX signals can be distributed from the RX1 and RX2 ports to all four receivers when both transceivers are connected to the same antenna system.

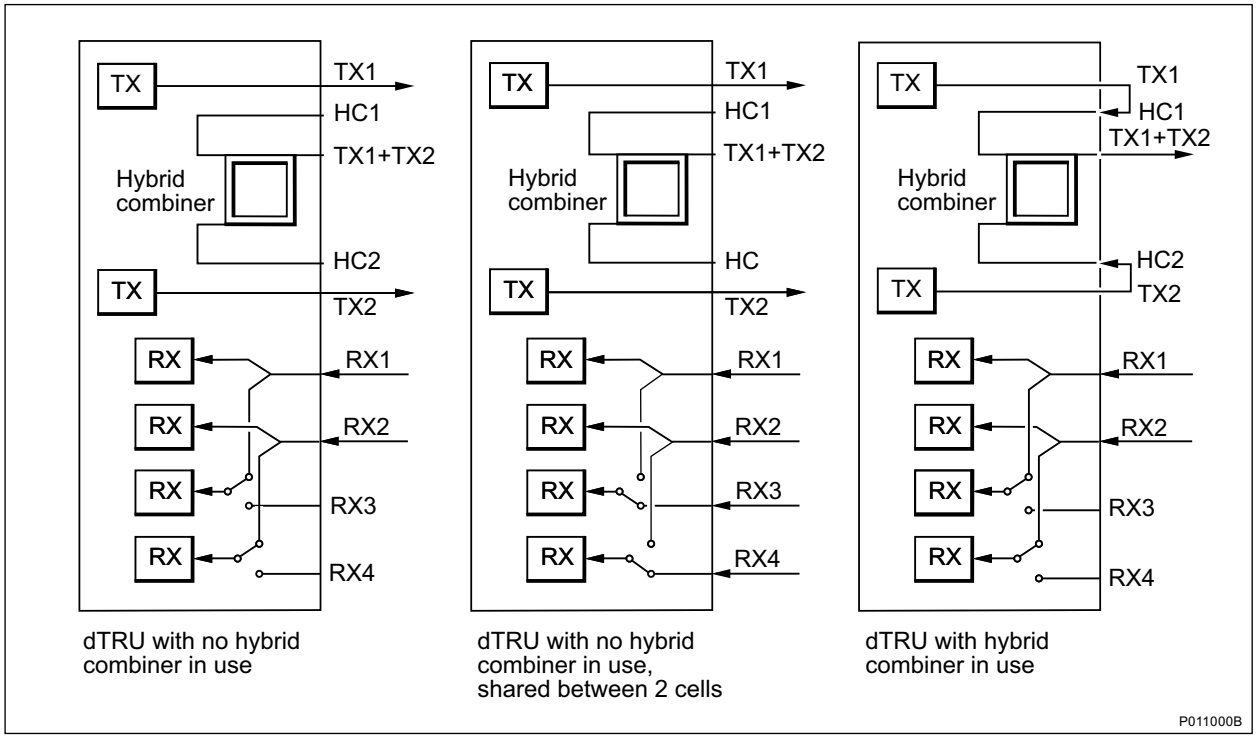

Figure 4 dTRU with and without Hybrid Combiner in Use

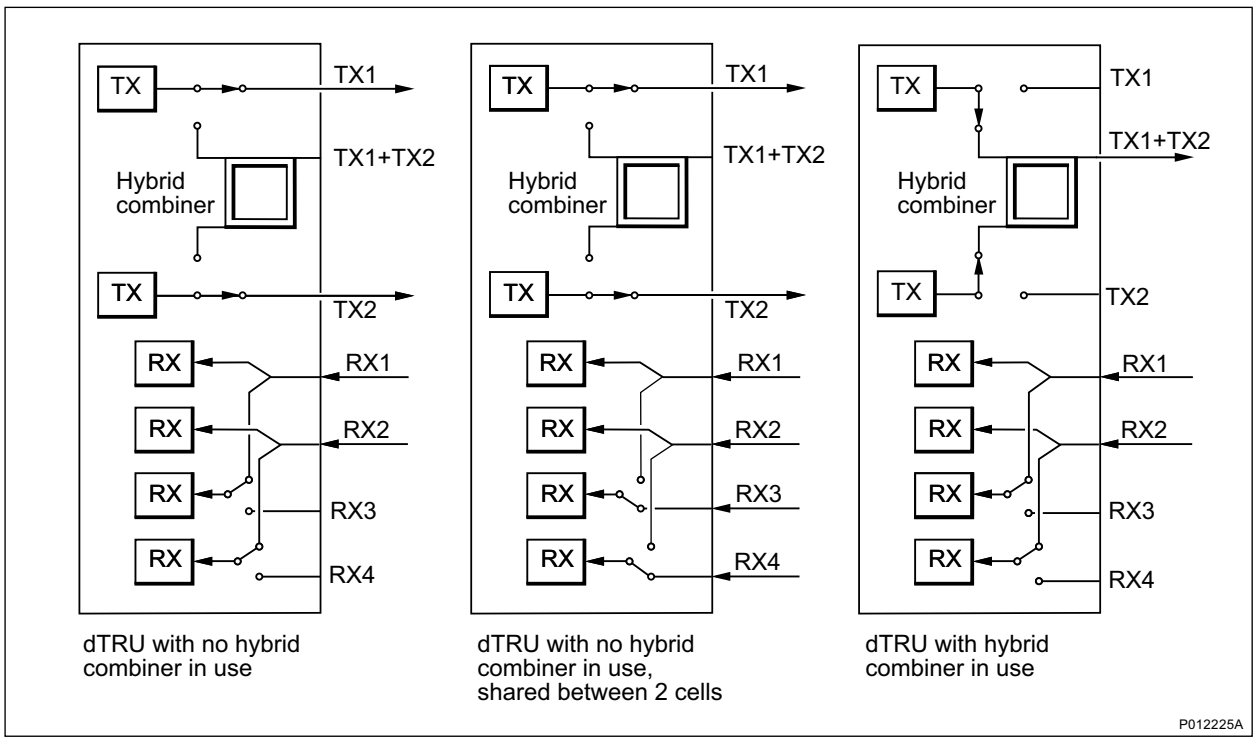

Figure 5 dTRUs with Internal Switch for Hybrid Combining

5.2 CDU-J Configurations

This section shows different configurations using CDU-J. The same configuration can exist using CDU-G but configured the same as CDU-J.

Configuration 2x1 CDU-J without hybrid combiner

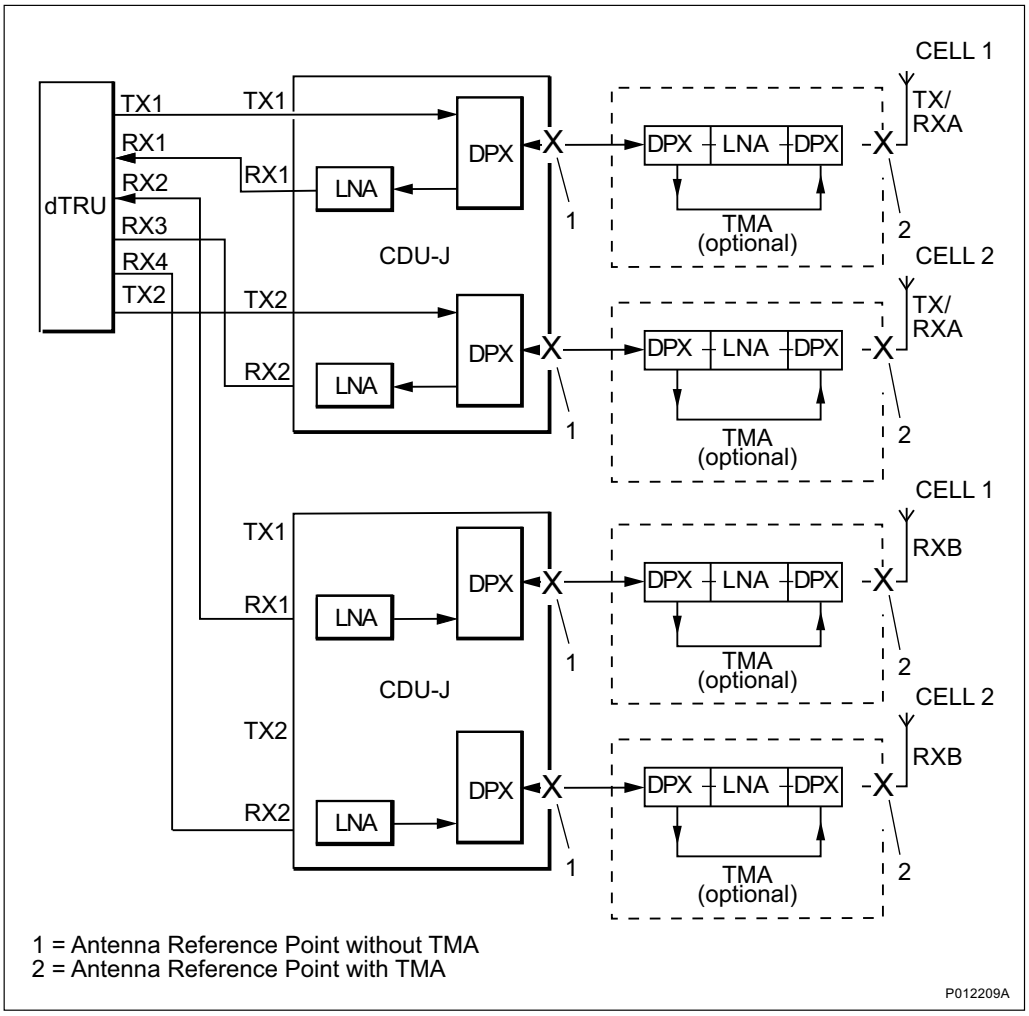

Figure 6 2x1 CDU-J uncombined

Characteristics for one cell

Number of CDUs	2 (2 CDUs support two sectors)
Frequency band	GSM 800
	P-GSM 900
	E-GSM 900

Characteristics for one cell

	GSM 1800
	GSM 1900
Max. number of TRXs	1 (1 dTRU supports two sectors)
Number of feeders	2
Number of antennas	2
Antenna configuration	TX/RX + RX
TMA configuration (optional)	ddTMA + ddTMA

Configuration 1x2 CDU-J with hybrid combiner

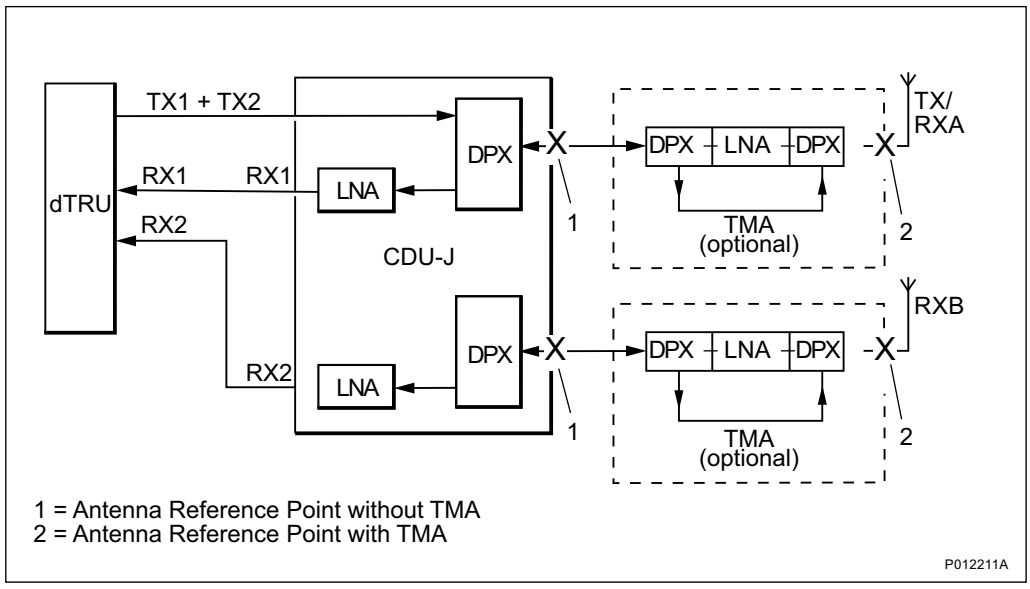

Figure 7 1x2 CDU-J uncombined

Characteristics

Number of CDUs	1
Frequency band	GSM 800
	P-GSM 900
	E-GSM 900
	GSM 1800
	GSM 1900
Max. number of TRXs	2

Characteristics

Number of feeders	2
Number of antennas	2
Antenna configuration	TX/RX + RX
TMA configuration (optional)	ddTMA + ddTMA

Configuration 1x2 CDU-J without hybrid combiner

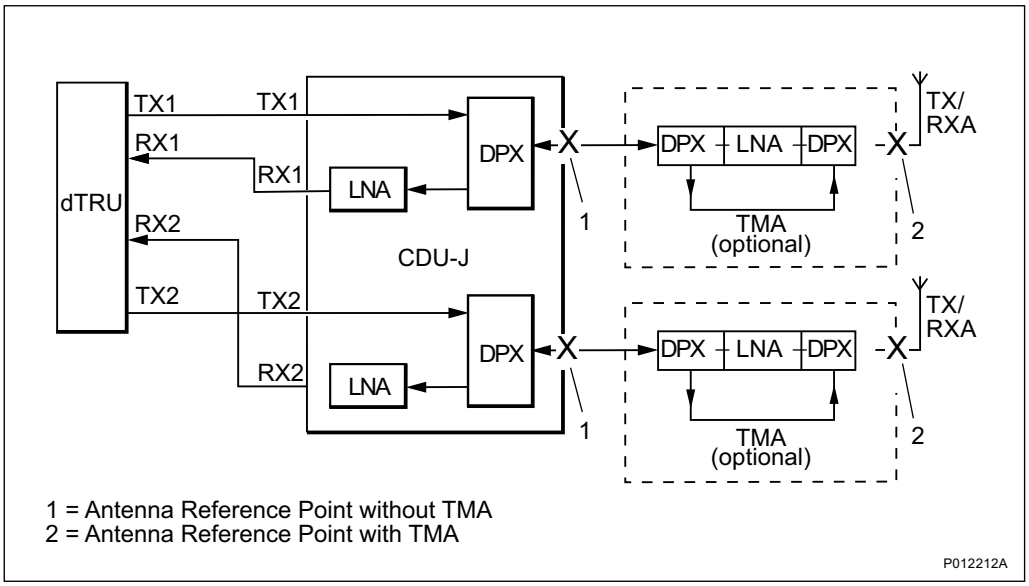

Figure 8 1x2 CDU-J uncombined

Characteristics

Number of CDUs	1
Frequency band	GSM 800
	P-GSM 900
	E-GSM 900
	GSM 1800
	GSM 1900
Max. number of TRXs	2
Number of feeders	2
Number of antennas	2
Antenna configuration	TX/RX + TX/RX
TMA configuration (optional)	ddTMA + ddTMA

6 Site Cell Configurations (SCC)

This section shows SCCs in one RBS. More RBSs can be combined to form larger configurations at a site.

The following SCCs are supported by the RBS:

- Specified basic radio configurations
- The RBS with any number of dTRUs within the specified range inserted in the specified position order
- CDU-G can exist in earlier versions of RBS 2207

6.1 Single Band Configurations

This section describes single band configurations for CDU-J.

CDU-J Single Band Configurations without Hybrid Combiner

Table 1 CDU-J configurations for GSM 800, P-GSM 900, E-GSM 900, GSM 1800 or GSM 1900

No. of cells	**Max no. of TRXs Cell:**			**No. of antennas Cell:**			***See:***
	1	**2**	**3**	**1**	**2**	**3**	
1	2			2			*Figure 7 on page 10* (config. x1)
2	2	2		2	2		*Figure 7 on page 10* (config. x2)
	1	1		2	2		*Figure 6 on page 9* (config. x2)
3	2	2	2	2	2	2	*Figure 7 on page 10* (config. x3)
	1	1	2	2	2	2	Cell 1: *Figure 6 on page 9* Cell 2: *Figure 6 on page 9* Cell 3: *Figure 7 on page 10*

CDU-J Single Band Configurations with Hybrid Combiner

Table 2 CDU-J configurations for GSM 800, P-GSM 900, E-GSM 900, GSM 1800 or GSM 1900

No. of cells	Max no. of TRXs Cell:			No. of antennas Cell:			*See:*
	1	2	3	1	2	3	
1	2			2			*Figure 8 on page 11* (config. x1)
2	2	2		2	2		*Figure 8 on page 11* (config. x2)
3	2	2	2	2	2	2	*Figure 8 on page 11* (config. x3)

6.2 Dual Band Configuration

The following configurations can be set to 2+1, 1+2 or 1+1 each with different frequency bands:

- 2 x 900 MHz + 1 x 1800 MHz (2+1)
- 1 x 900 MHz + 2x 1800 MHz (1+2)

The following configurations is allowed for Dual band:

- GSM 800/1900
- GSM 900/1800
- GSM 800/1800

Table 3 CDU-J Configurations for Dual Band

No. of cells	Max no. of TRXs Cell:			No. of antennas Cell:			*See:*
	1	2	3	1	2	3	
2	2	2		2	2		*Figure 7 on page 10* (config. x2)
3	2	2	2	2	2	2	*Figure 7 on page 10* (config. x3)
2	2	2		2	2		*Figure 8 on page 11* (config. x2)
3	2	2	2	2	2	2	*Figure 8 on page 11* (config. x3)

6.3 Mixing CDU-G and CDU-J

Mixing CDU-G and CDU-J within the same cabinet is allowed for all single band and dual band, except for 2x1 CDU-J or CDU-G without hybrid combiner. *See Figure 6 on page 9*, that is dTRU to 2 x CDU-G or 2 x CDU-J.

6.4 RX Cables

CDU-G must be cabled with QMA attenuators or the cables with build-in attenuators. CDU-J must never be cabled with the RX cables with build-in attenuators. It must be cabled without the QMA attenuators.

6.5 SW Power Boost Configurations with CDU-J

This section does not include any additional site cell configurations. The section specifies which configurations support SW Power Boost (SPB).

A minimum of two TRXs is required in an antenna system in order to use SW Power Boost. Separate TX antennas must be used for the two transmitters in an SPB configuration.

SPB with CDU-J Configurations without Hybrid Combiner

SW Power Boost is supported in all of the SCCs with CDU-G/CDU-J, specified in *Section 6 on page 11,* which fulfill the following conditions:

- The configurations do not use hybrid combiner
- The configurations have the TRX connected to different antennas in the same antenna system

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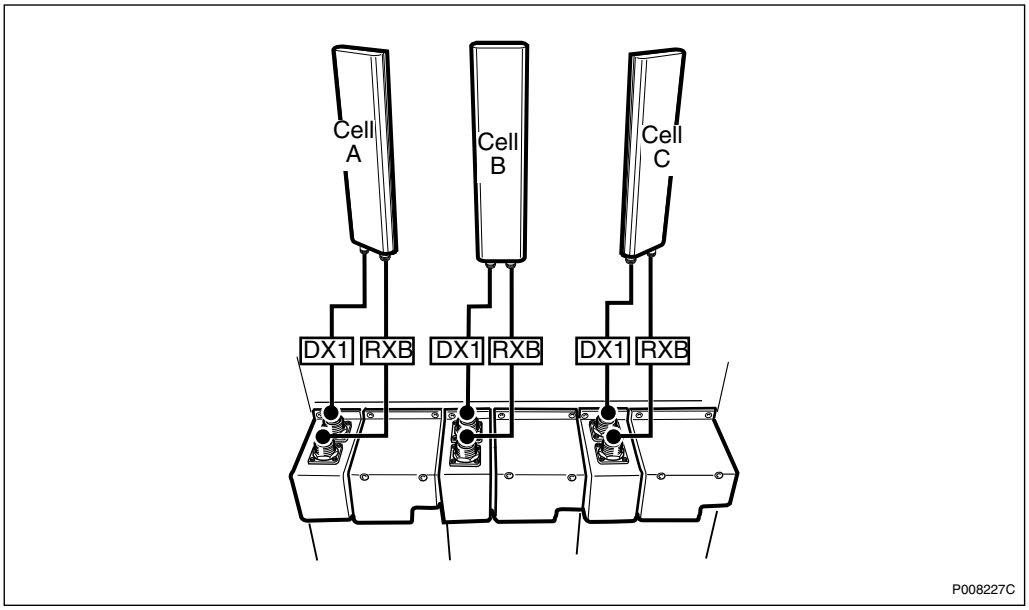
RBS 2106
Antenna Configurations
Description

This document describes the alternative antenna configurations for the RBS 2106.



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1 Introduction

The various configurations available for the RBS 2106 are described according to the following example:

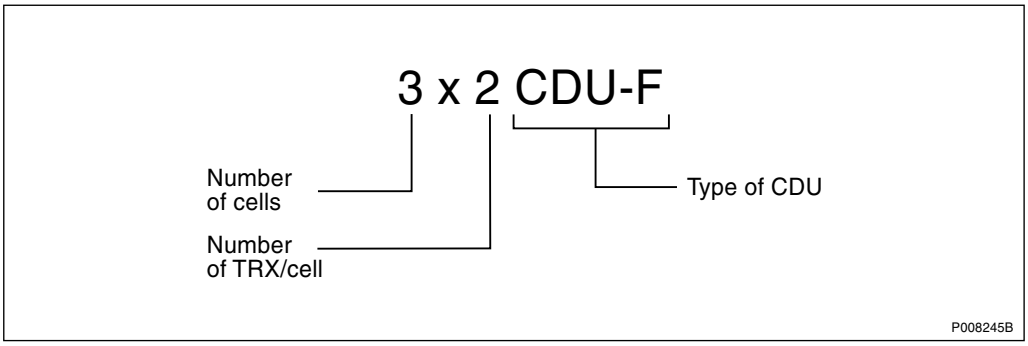

Figure 1 CDU Configuration Key

In the example above, the cabinet is configured for three cells, each using two Transceivers (TRX). The total number of TRXs is thus six in this case. The Combining and Distribution Unit (CDU) is of the type CDU-F.

Note: If a Tower Mounted Amplifier (TMA) is used, then the bias injectors must be installed.

2 Antenna Connection Field

This section describes the antenna connection fields in the RBS 2106.

Antenna jumpers are connected at the connection field shown in the figure below.

Each CDU uses a set of standard RF wiring patterns for connections made between each CDU and the antenna connection field.

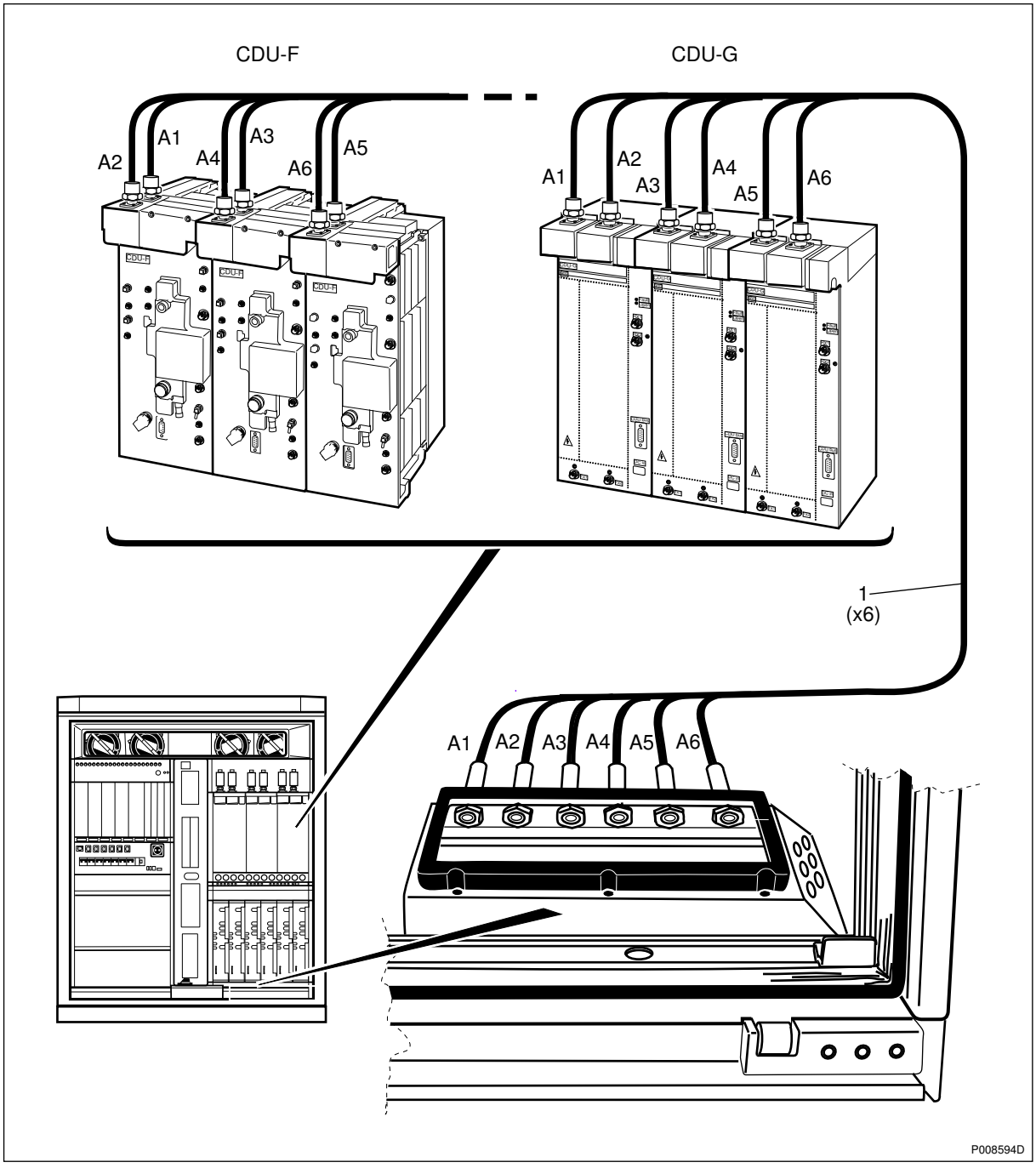

Figure 2 Internal Cabling between CDUs and Antenna Connection Field

Certain configurations require the use of an Antenna Sharing Unit (ASU). In these cases, the signal is shared between RBSs through the antenna sharing connection fields.

The figure below provides an overview of the antenna sharing connectors and the cabling from the ASU.

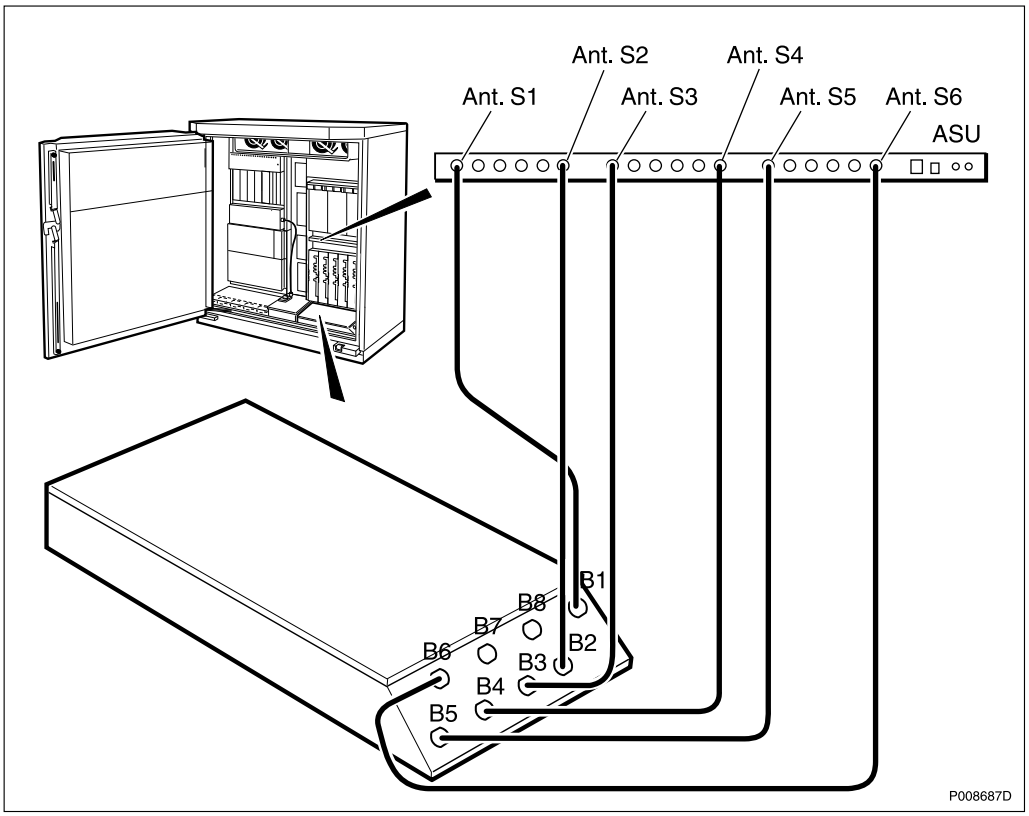

Figure 3 Cabling between ASU and Antenna Sharing Connectors

3 CDU-F Antenna Connections

The antenna connectors are located in the antenna connection field, *see Section 2 Antenna Connection Field on page 3*.

The antenna connectors are located on the top of the CDU, *see the figures below.*

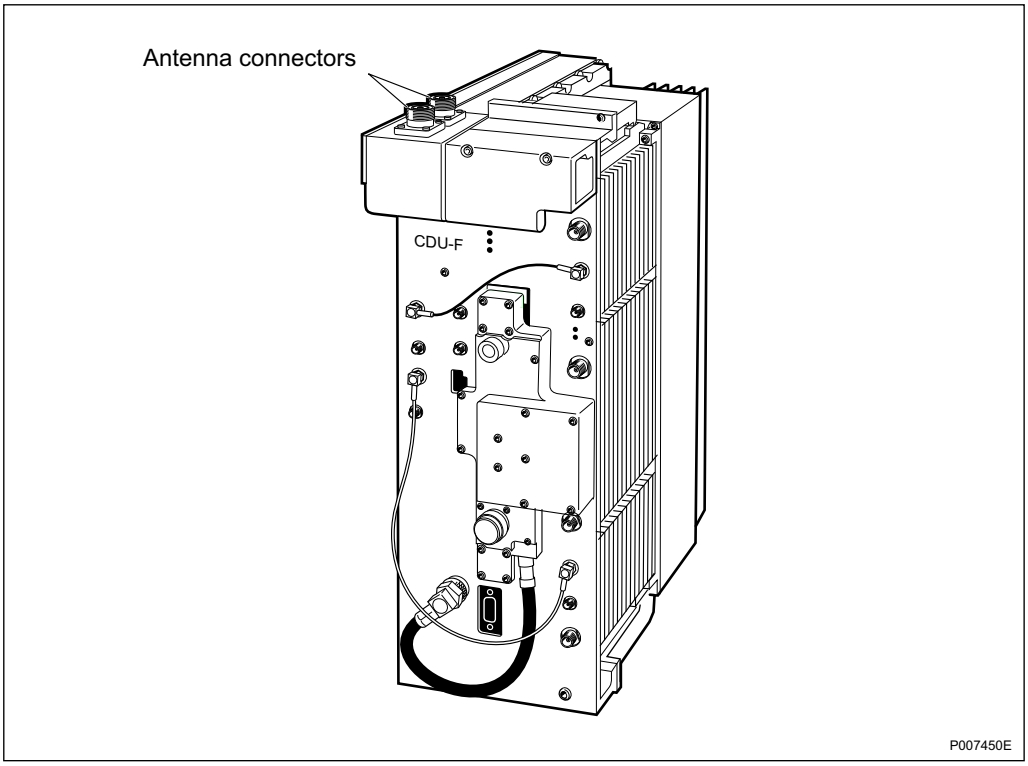

Figure 4 CDU-F Layout

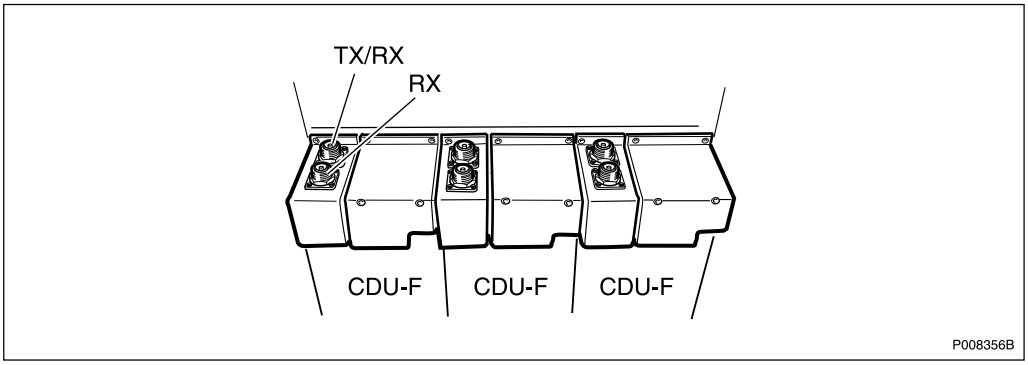

Figure 5 CDU-F Antenna Feeder Connectors

4 CDU-F Configurations

Note: In the figures and tables that follow, only cabinets that are fully-equipped are shown. Configurations consisting of part of the fully-equipped cabinet can also be extracted from the following figures and tables.

See Figure 2 on page 4, Figure 3 on page 5 and *Figure 5 on page 6* for an illustration of each the column headers in the tables below.

4.1 3x4 CDU-F Configuration

The figure below shows the 3x4 CDU-F configuration.

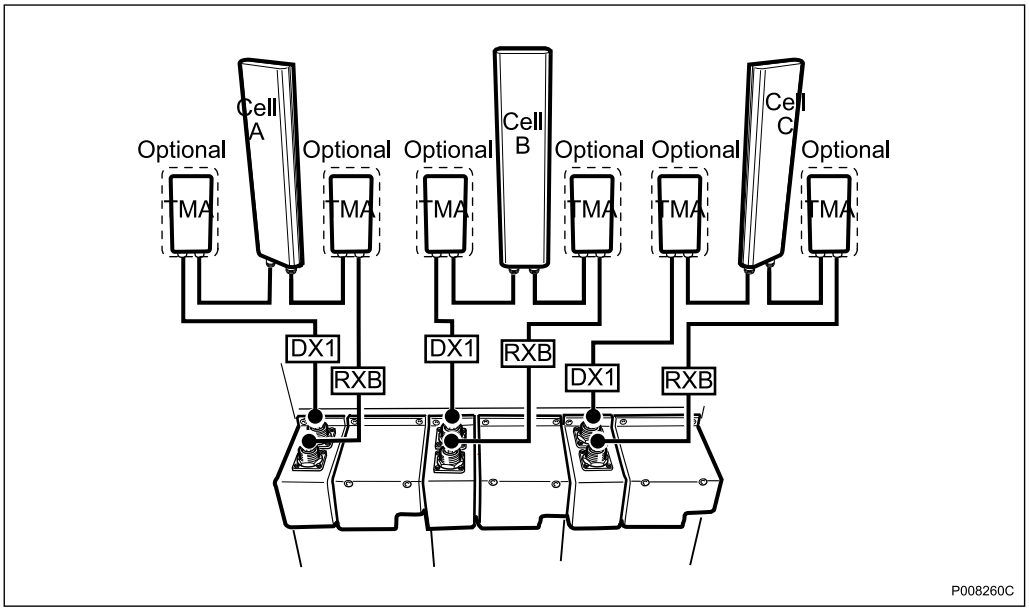

Figure 6 3x4 CDU-F Configuration

Table 1 3x4 CDU-F Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
		CellA: RXB	RX	A2	RX B	B2
B	2	CellB: DX1	TX/RX	A3	TX/RX A	B3
		CellB: RXB	RX	A4	RX B	B4
C	3	CellC: DX1	TX/RX	A5	TX/RX A	B5
		CellC: RXB	RX	A6	RX B	B6

4.2 1x8 CDU-F Configuration

The figure below shows the 1x8 CDU-F configuration.

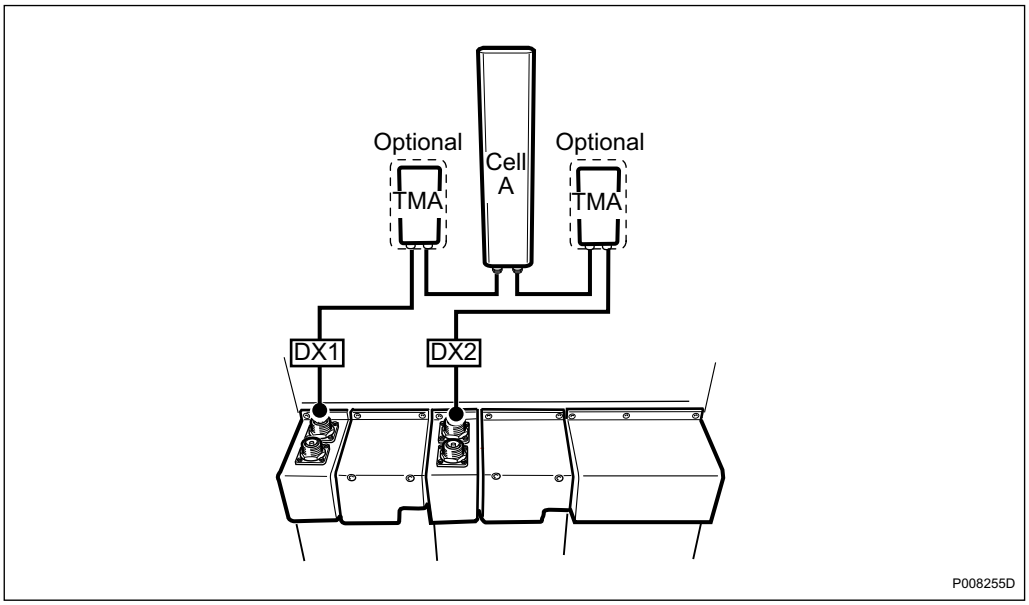

Figure 7 1x8 CDU-F Configuration

Table 2 1x8 CDU-F Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
	2	CellA: DX2	TX/RX	A3	TX/RX B	B3

4.3 1x12 CDU-F Configuration

The figure below shows the 1x12 CDU-F configuration.

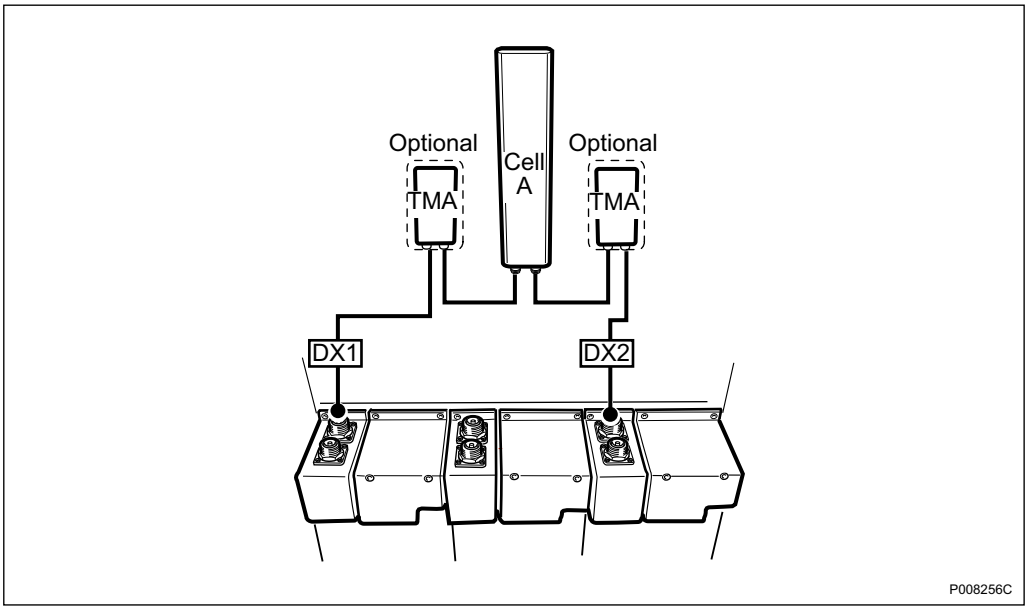

Figure 8 1x12 CDU-F Configuration

Table 3 1x12 CDU-F Configuration

	CDU					
			Connector			
Cell	CDU No.	Feeder Label	CDU	Conn. Field	Signal	ASU Connector
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
	3	CellA: DX2	TX/RX	A5	TX/RX B	B5

4.4 2x6 CDU-F Configuration

The figure below shows the 2x6 CDU-F configuration.

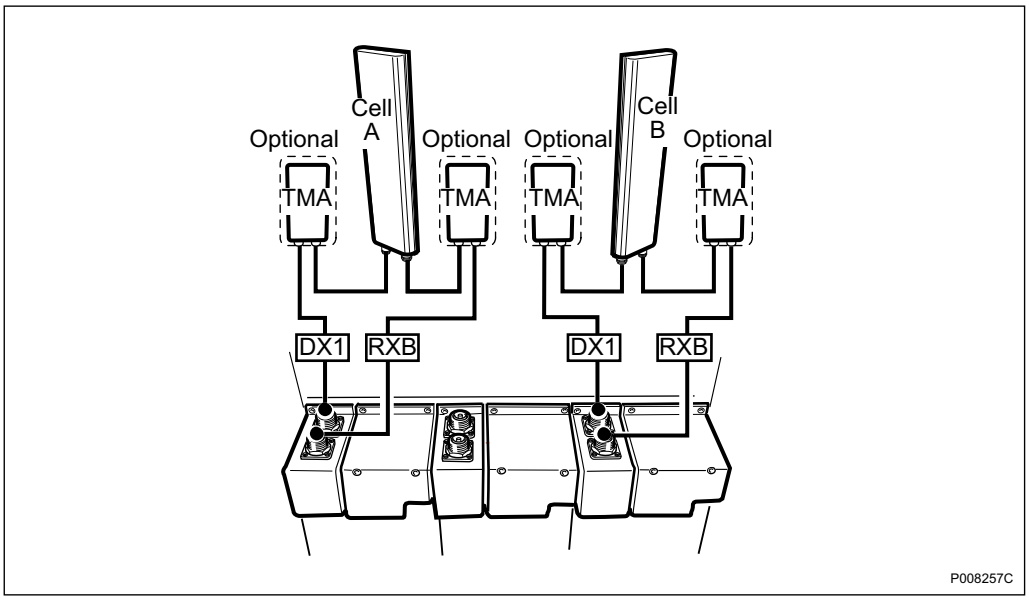

Figure 9 2x6 CDU-F Configuration

Table 4 2x6 CDU-F Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
		CellA: RXB	RX	A2	RX B	B2
B	3	CellB: DX1	TX/RX	A5	TX/RX A	B5
		CellB: RXB	RX	A6	RX B	B6

4.5 1x4 + 1x8 CDU-F Configuration

The figure below shows the 1x4 + 1x8 CDU-F configuration.

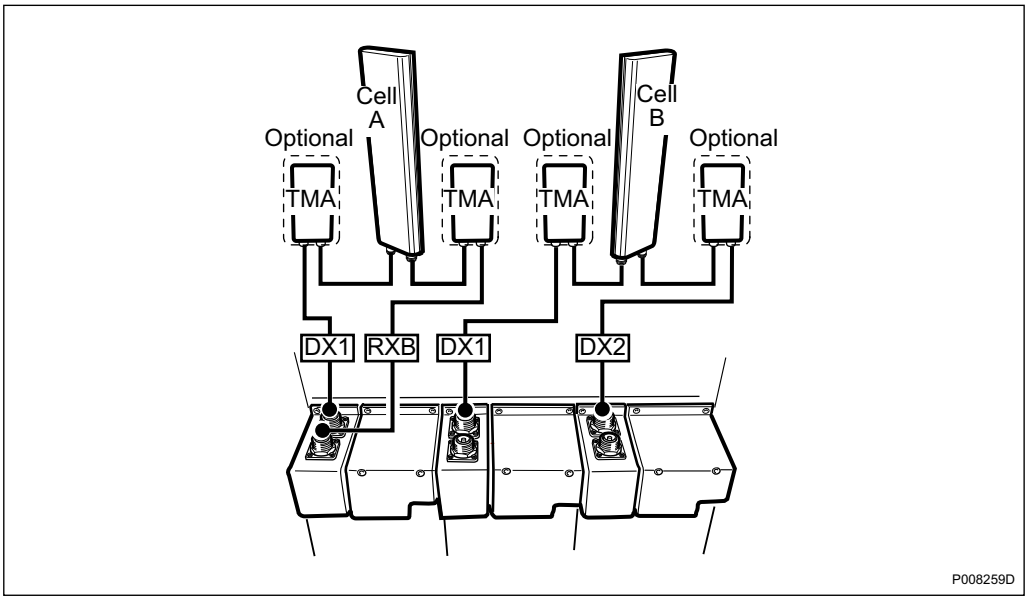

Figure 10 1x4 + 1x8 CDU-F Configuration

Table 5 1x4 + 1x8 CDU-F Configuration

	CDU					
			Connector			
Cell	CDU No.	Feeder Label	CDU	Conn. Field	Signal	ASU Connector
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
		CellA: RXB	RX	A2	RX B	B2
B	2	CellB: DX1	TX/RX	A3	TX/RX A	B3
	3	CellB: DX2	TX/RX	A5	TX/RX B	B5

4.6 1x8 + 1x4 CDU-F Configuration

The figure below shows the 1x8 + 1x4 CDU-F configuration.

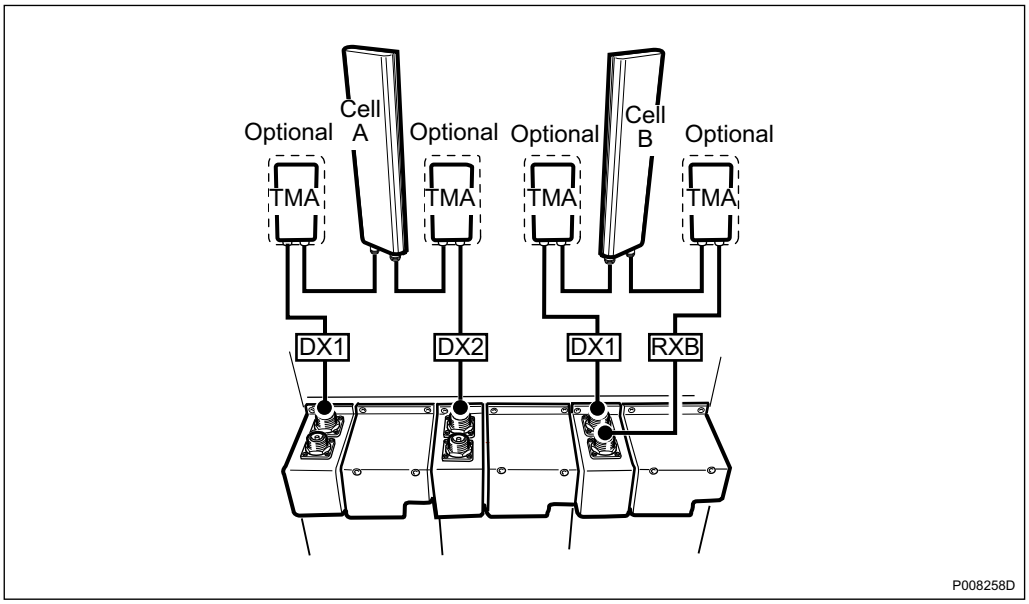

Figure 11 1x8 + 1x4 CDU-F Configuration

Table 6 1x8 + 1x4 CDU-F Configuration

	CDU					
			Connector			
Cell	CDU No.	Feeder Label	CDU	Conn. Field	Signal	ASU Connector
A	1	CellA: DX1	TX/RX	A1	TX/RX A	B1
	2	CellA: DX2	TX/RX	A3	TX/RX B	B3
B	3	CellB: DX1	TX/RX	A5	TX/RX A	B5
		CellB: RXB	RX	A6	RX B	B6

4.7 3x8 CDU-F Configuration

The figure below shows the 3x8 CDU-F configuration.

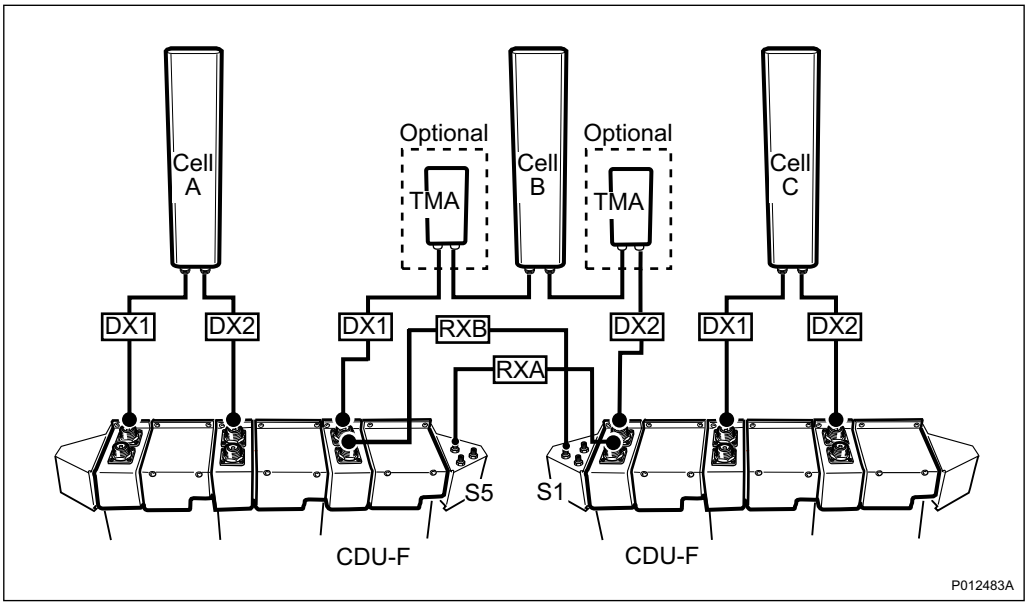

Figure 12 3x8 CDU-F Configuration

Table 7 3x8 CDU-F Configuration, Mid-sector

Cell	CDU				ASU Connector
	CDU No.	Feeder Label	Connector CDU	Signal	
A Cab. 1	1	CellA: DX1	TX/RX	TX/RX A	1
	2	CellA: DX2	TX/RX	TX/RX B	3
B	3 Cab. 1	CellB: DX1	TX/RX	TX/RX A	5
		CellB: RXB	RX	RX B	–
	1 Cab. 2	CellB: DX2	TX/RX	TX/RX B	1
		CellB: RXA	RX	RX A	–
C Cab. 2	2	CellC: DX1	TX/RX	TX/RX A	3
	3	CellC: DX2	TX/RX	TX/RX B	5

5 CDU-G Antenna Connections

The antenna connectors are located in the antenna connection field, *see Section 2 Antenna Connection Field on page 3*.

The antenna connectors are located on the top of the CDU, *see the figures below.*

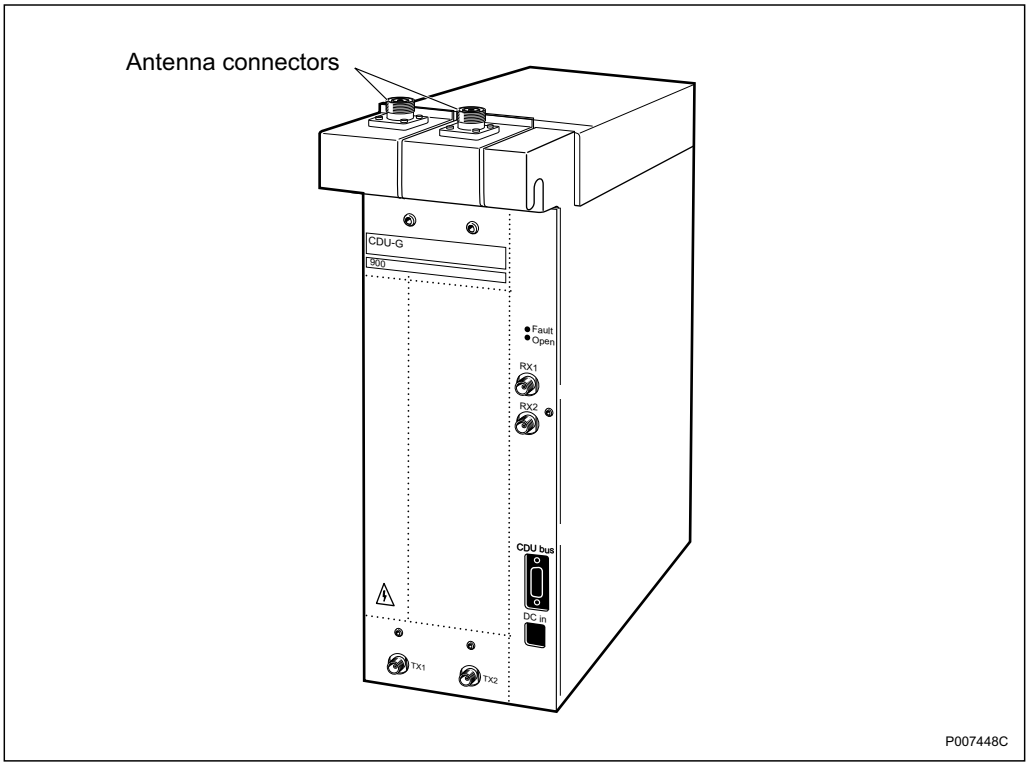

Figure 13 CDU-G Layout

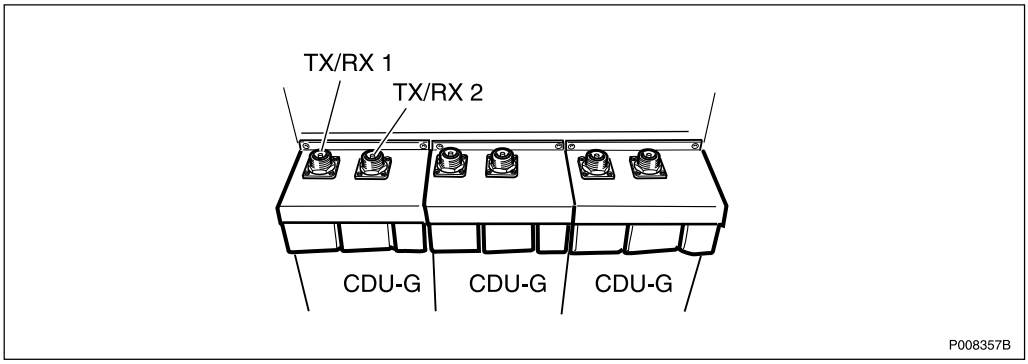

Figure 14 CDU-G Antenna Feeder Connectors

6 CDU-G Configurations

Note: In the figures and tables that follow, only cabinets that are fully-equipped are shown. Configurations consisting of part of the fully-equipped cabinet can also be extracted from the following figures and tables.

See Figure 2 on page 4, Figure 3 on page 5 and *Figure 14 on page 15* for an illustration of each the column headers in the tables below.

6.1 3x2 CDU-G and 3x4 CDU-G Configuration

The figure below shows the 3x2 CDU-G and 3x4 CDU-G configuration.

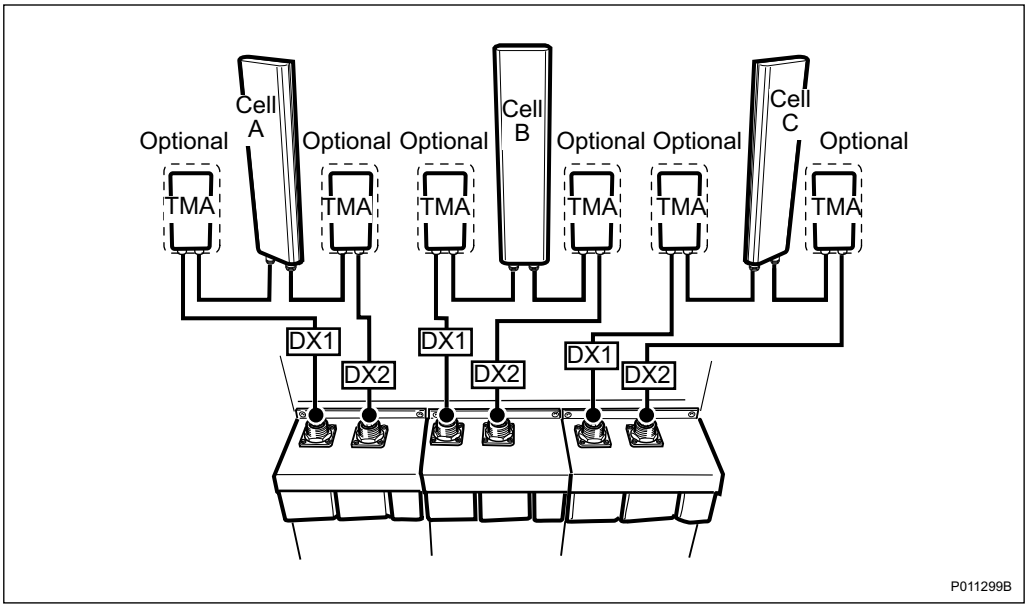

Figure 15 3x2 and 3x4 CDU-G Configuration

Table 8 3x2 CDU-G and 3x4 CDU-G Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
		CellA: DX2	TX/RX2	A2	TX/RX B	B2
B	2	CellB: DX1	TX/RX1	A3	TX/RX A	B3
		CellB: DX2	TX/RX2	A4	TX/RX B	B4
C	3	CellC: DX1	TX/RX1	A5	TX/RX A	B5
		CellC: DX2	TX/RX2	A6	TX/RX B	B6

6.2 2x1 CDU-G Configuration

The figure below shows the 2x1 CDU-G configuration.

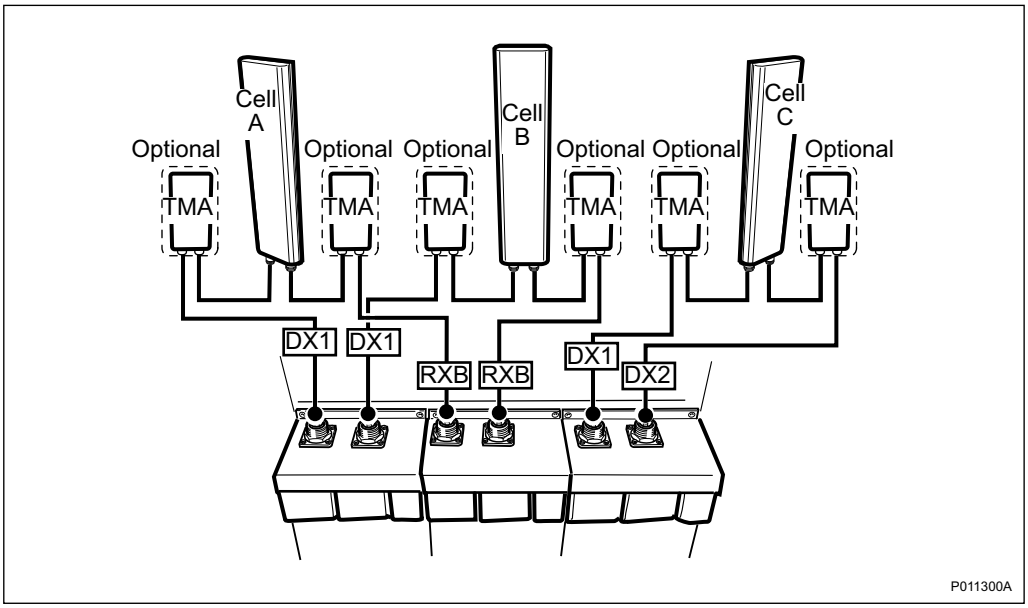

Figure 16 2x1 CDU-G Configuration

Table 9 2x1 CDU-G Configuration

Cell	CDU					ASU Connector
	CDU No.	Feeder Label	Connector		Signal	
			CDU	Conn. Field		
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
	2	CellA: RXB	TX/RX1	A3	RX B	B3
B	1	CellB: DX1	TX/RX2	A2	TX/RX A	B2
	2	CellB: RXB	TX/RX2	A4	RX B	B4

6.3 2x3 CDU-G Configuration

The figure below shows the 2x3 CDU-G configuration.

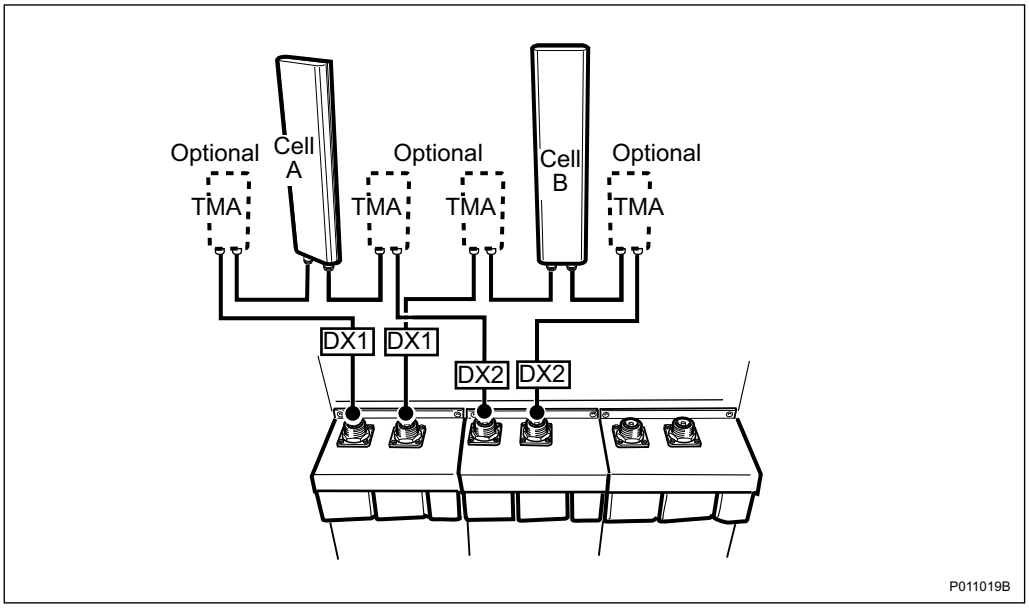

Figure 17 2x3 CD-G Configuration

Table 10 2x3 CDU-G Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
	2	CellA: DX2	TX/RX1	A3	TX/RX B	B3
B	1	CellB: DX1	TX/RX2	A2	TX/RX A	B2
	2	CellB: DX2	TX/RX2	A4	TX/RX B	B4

6.4 1x4 CDU-G without HCU and 1x8 CDU-G with HCU Configuration

The figure below shows the 1x4 CDU-G without Hybrid Combiner Unit (HCU) and 1x8 CDU-G with HCU configuration.

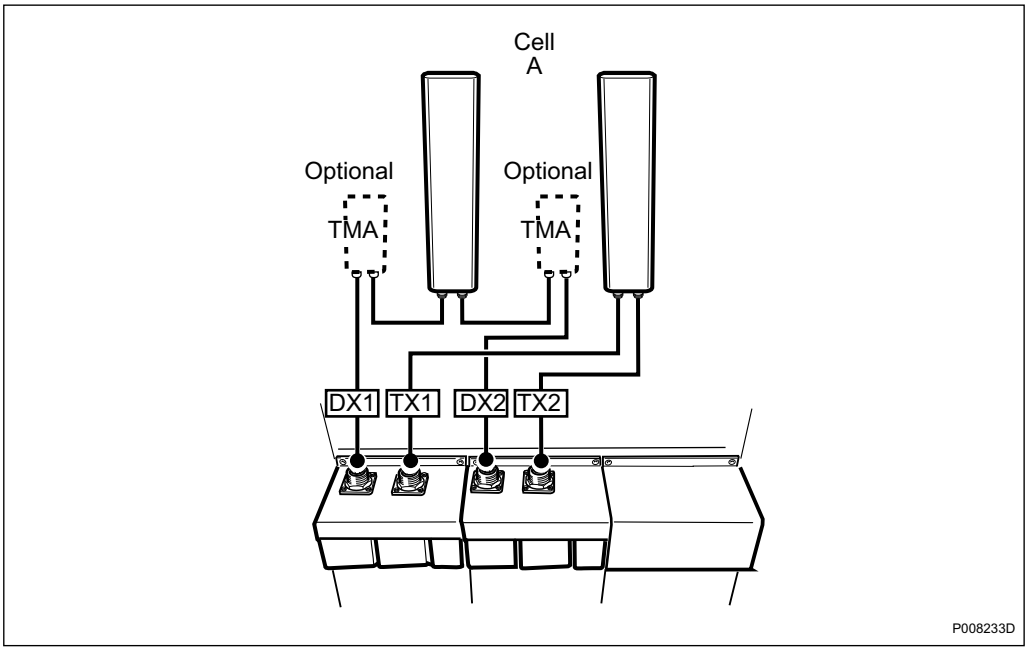

Figure 18 1x4 CDU-G without HCU and 1x8 CDU-G with HCU Configuration

Table 11 1x4 CDU-G without HCU and 1x8 CDU-G with HCU Configuration

	CDU					
			Connector			
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
		CellA: TX1	TX/RX2	A2	TX	–
	2	CellA: DX2	TX/RX1	A3	TX/RX A	B3
		CellA: TX2	TX/RX2	A4	TX	–

6.5 1x6 CDU-G without HCU and 1x12 CDU-G with HCU Configuration

The figure below shows the 1x6 CDU-G without HCU and 1x12 CDU-G with HCU configuration.

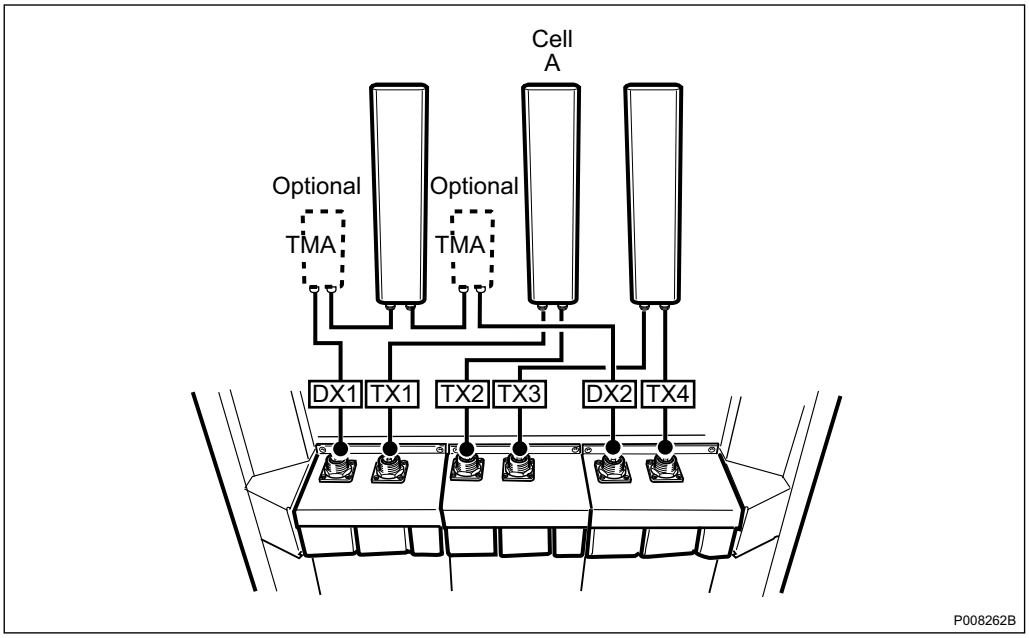

Figure 19 1x6 CDU-G without HCU and 1x12 CDU-G with HCU Configuration

Table 12 1x6 CDU-G without HCU and 1x12 CDU-G with HCU Configuration

	CDU					
			Connector			
Cell	CDU No.	Feeder Label	CDU	Conn. Field	Signal	ASU Connector
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
		CellA: TX1	TX/RX2	A2	TX	–
	2	CellA: TX2	TX/RX1	A3	TX	–
		CellA: TX3	TX/RX2	A4	TX	–
	3	CellA: DX2	TX/RX1	A5	TX/RX B	B5
		CellA: TX4	TX/RX2	A6	TX	–

6.6 1x8 CDU-G with HCU Configuration

The figure below shows the 1x8 CDU-G with HCU configuration.

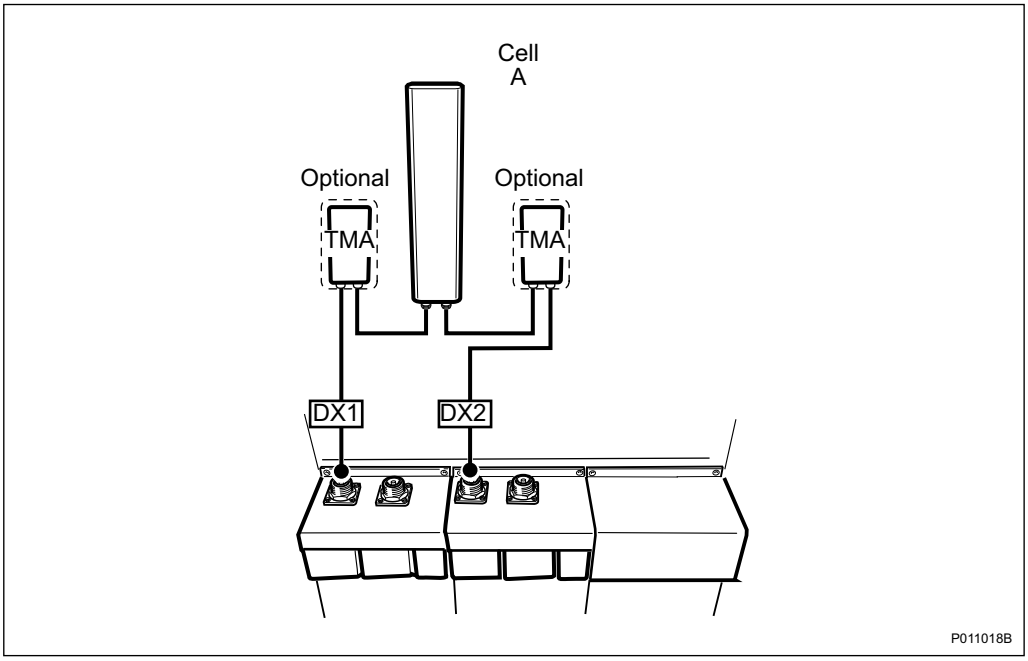

Figure 20 1x8 CDU-G with HCU Configuration

Table 13 1x8 CDU-G with HCU Configuration

Cell	CDU					ASU Connector
	CDU No.	Feeder Label	Connector		Signal	
			CDU	Conn. Field		
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
	2	CellA: DX2	TX/RX1	A3	TX/RX B	B3
Alt. A	2	CellA: DX1	TX/RX1	A3	TX/RX A	B3
	3	CellA: DX2	TX/RX1	A5	TX/RX B	B5

6.7 1x12 CDU-G with HCU Configuration

The figure below shows the 1x12 CDU-G with HCU configuration.

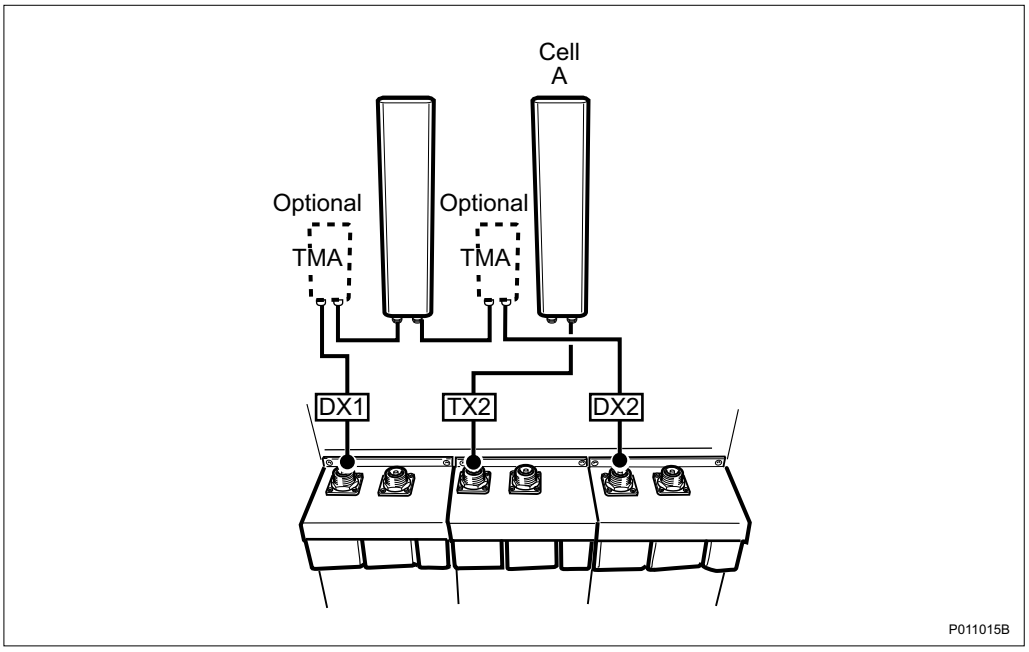

Figure 21 1x12 CDU-G with HCU Configuration

Table 14 1x12 CDU-G with HCU Configuration

Cell	CDU					ASU Connector
	CDU No.	Feeder Label	Connector		Signal	
			CDU	Conn. Field		
A	1	CellA: DX1	TX/RX 1	A1	TX/RX A	B1
	2	CellA: TX1	TX/RX 1	A3	TX	–
	3	CellA: DX2	TX/RX 1	A5	TX/RX B	B5

6.8 2x6 CDU-G Configuration

The figure below shows the 2x6 CDU-G configuration.

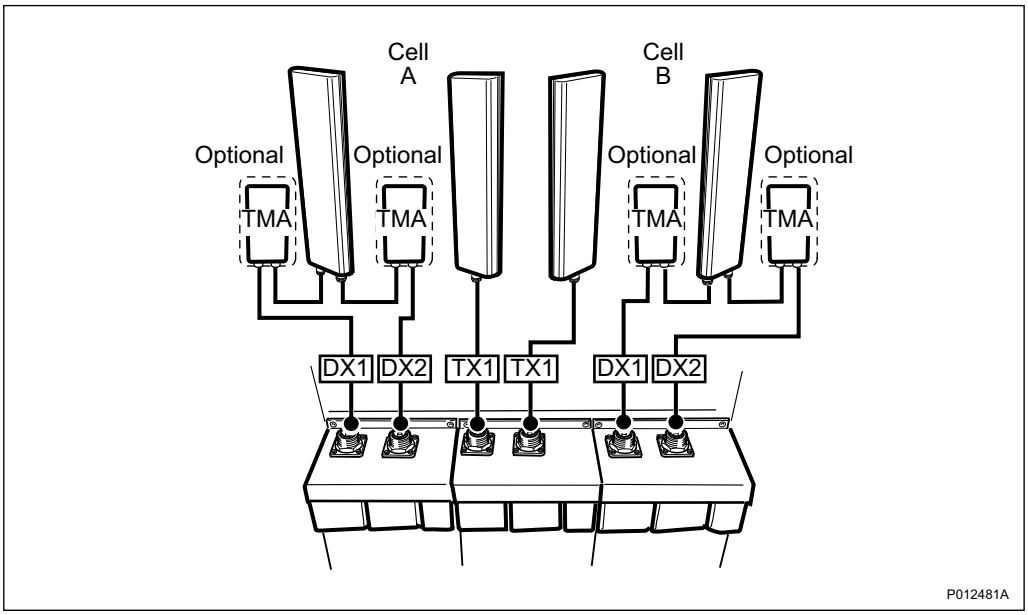

Figure 22 2x6 CDU-G Configuration

Table 15 2x6 CDU-G Configuration

	CDU					
			Connector			
Cell	CDU No.	Feeder Label	CDU	Conn. Field	Signal	ASU Connector
A	1	CellA: DX1	TX/RX1	A1	TX/RX A	B1
		CellA: DX2	TX/RX2	A2	TX/RX B	B2
	2	CellA: TX1	TX/RX1	A3	TX	–
B		CellB: TX1	TX/RX2	A4	TX	–
	3	CellB: DX1	TX/RX1	A5	TX/RX A	B5
		CellB: DX2	TX/RX2	A6	TX/RX B	B6

6.9 3x8 CDU-G with HCU Configuration

The figures below shows the 3x8 CDU-G with HCU configuration.

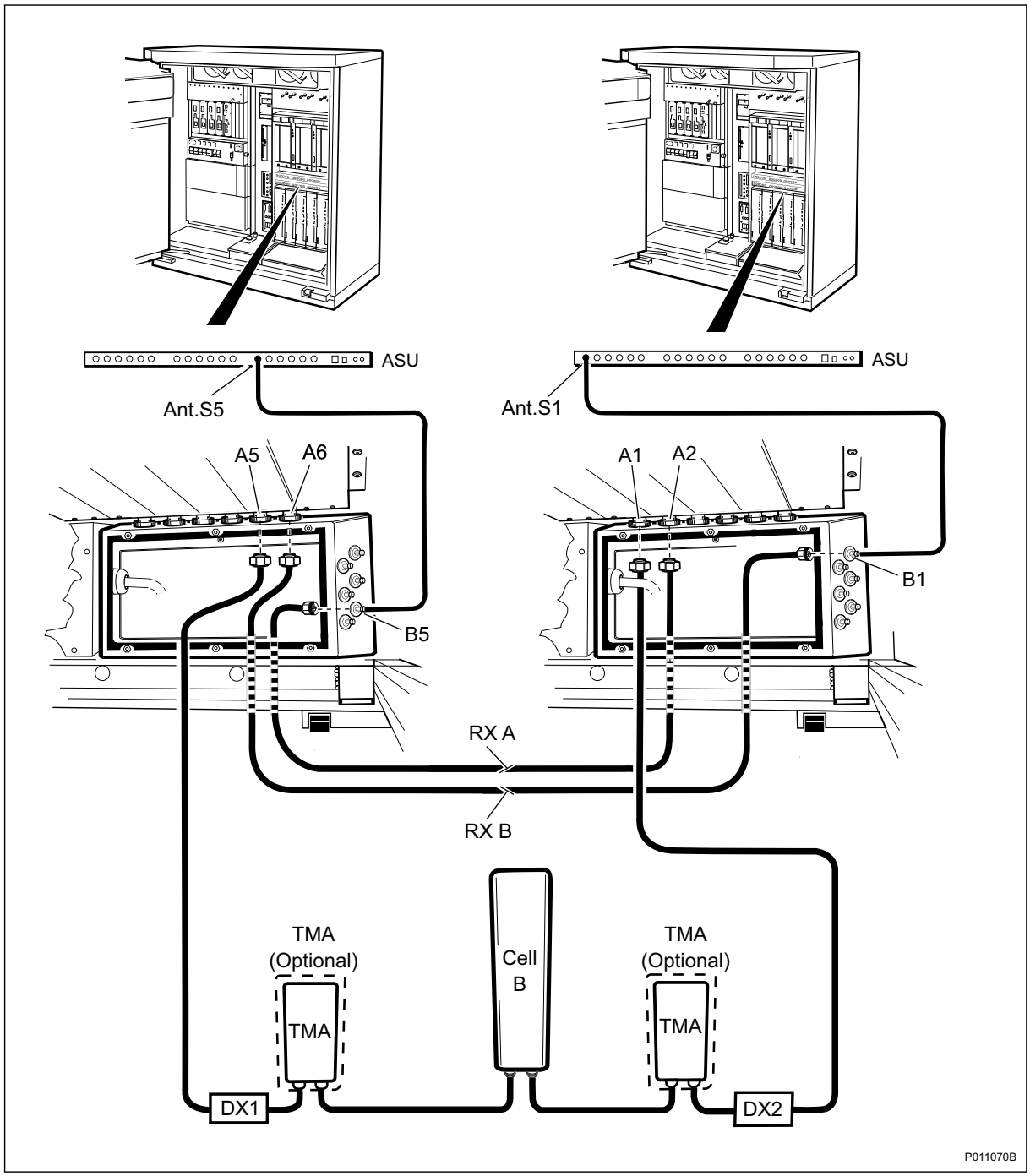

Figure 23 3x8 CDU-G with HCU Antenna Connection Field, Mid-sector

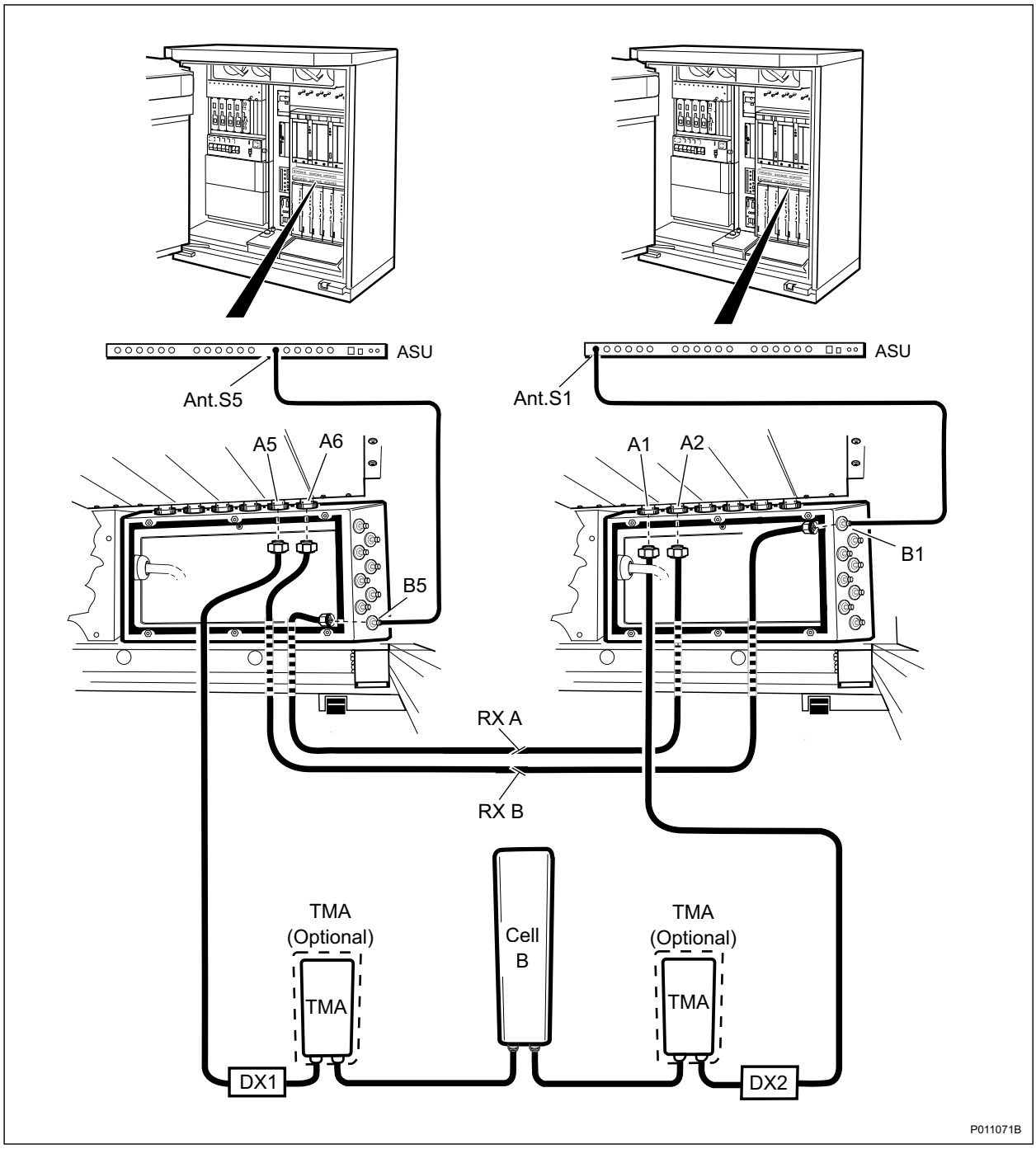

Figure 24 3x8 CDU-G with HCU Configuration, New Antenna Connection Field, Mid-sector

Table 16 3x8 CDU-G with HCU Configuration

	CDU						
			Connector				
Cell	**CDU No.**	**Feeder Label**	**CDU**	**Conn. Field**	**Signal**	**ASU Connector**	**Cabinet**
A	1 Cab. 1	CellA: DX1	TX/RX1	A1	TX/RX A	B1	1
	2 Cab. 1	CellA: DX2	TX/RX2	A3	RX B TX/RX B	B3	
B	3 Cab 1	CellB: DX 1	TX/RX1	A5	TX/RX A	B5	–
		CellB: RX B	TX/RX2	A6	RX B	–	
	1 Cab. 2	CellB: DX 2	TX/RX1	A1	TX/RX B	B1	2
		CellB: RX A	TX/RX2	A2	RX A	–	
C	2 Cab. 2	CellC: DX1	TX/RX1	A3	TX/RX A	B3	–
	3 Cab. 2	CellC: DX2	TX/RX1	A5	TX/RX B	B5	

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