Nokia UltraSite EDGE BTS ODCA Installation Quick Reference Guide

Introduction

This guide provides a quick reference for installing the Nokia UltraSite EDGE BTS outdoor cabinet (ODCA). Instructions for the following GSM/EDGE configurations are included in this guide:

1+1+1 combining bypass

2+2+2 combining bypass

3+3+3 two-way WBC

4+4+4 two-way WBC

Please read *Nokia UltraSite EDGE BTS User Manual* carefully before installing or commissioning the BTS. Instructions given in the User Manual take precedence.

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- 1. Checking the delivery contents
- 2. Viewing the outdoor cabinet
- 3. Checking cabinet clearances
- 4. Mounting the cabinet
- 5. Cabling the cabinet
- 6. Installing and cabling the BTS units

Once the installation is completed, the BTS is ready to be powered up and commissioned. For detailed instructions and a complete installation checklist, see *Nokia UltraSite EDGE BTS User Guide*.



Warning

The FXC-STM-1 is laser class 1. For more information, see UltraSite EDGE BTS User Manual.

UltraSite EDGE BTS has many sharp edges. Exercise caution during installation.

When drilling, wear the necessary protective gear, such as gloves and safety glasses.

The cabinet is heavy. Additional personnel or lifting equipment may be required when the cabinet is moved, unpacked, or lined up. Avoid tilting the cabinet forward. Internal components, such as cables, may fall out. In addition, follow any local regulations applicable to the installation.

Danger of lethal voltages! Make sure that the equipment is earthed (grounded) correctly and that all earth (ground) connections are secure and irremovable before connecting the power cables.



Caution

Nokia requires that personnel who perform installation tasks have basic knowledge of base station systems and equipment.

If the installation site is in an area affected by seismic activity, follow the earthquake mounting instructions.

Always use the antistatic wrist strap when handling units marked with the ESD sign.

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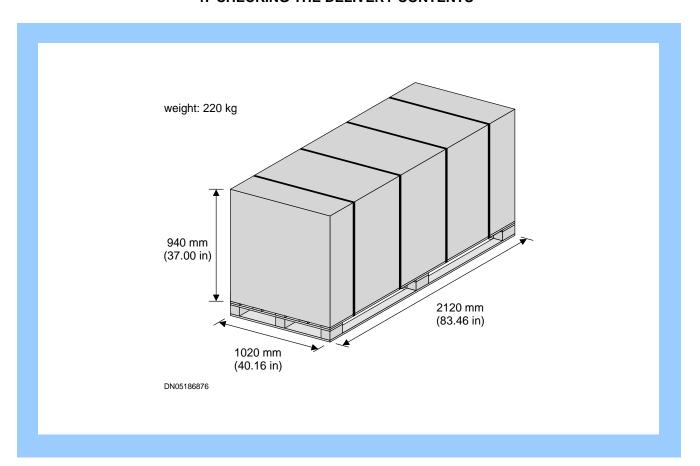
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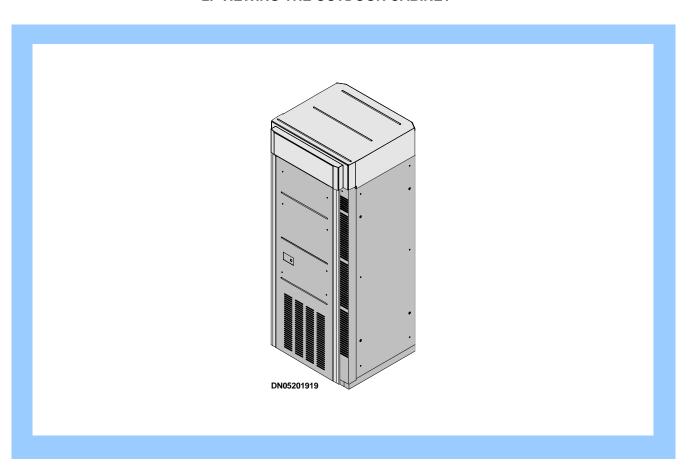
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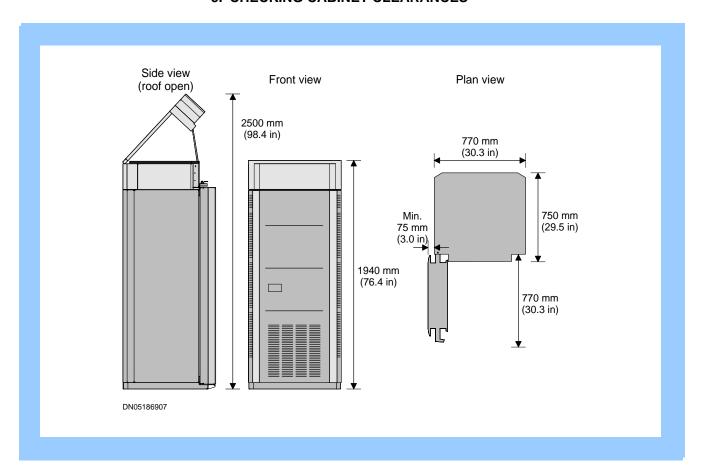
1. CHECKING THE DELIVERY CONTENTS



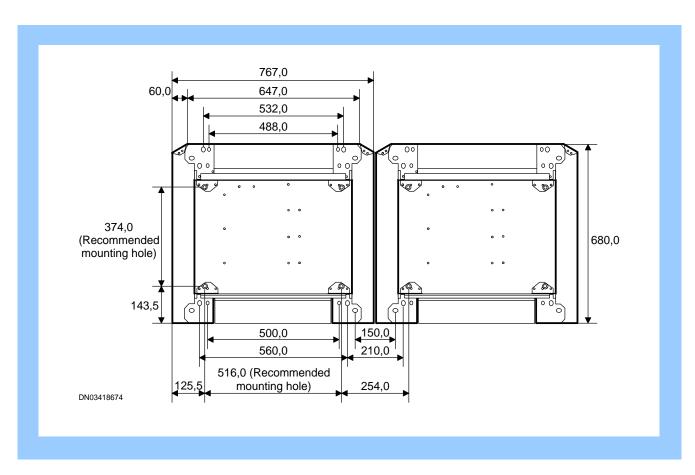
2. VIEWING THE OUTDOOR CABINET



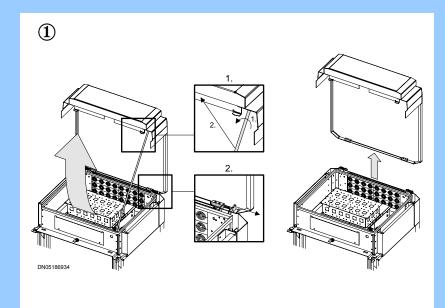
3. CHECKING CABINET CLEARANCES



4. MOUNTING THE CABINET



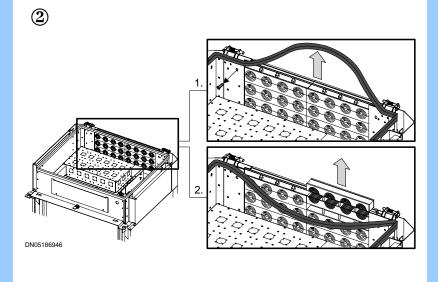
5. CABLING THE CABINET



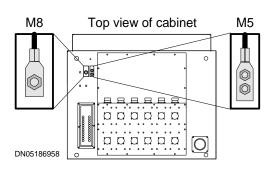
- 1. Remove the roof.
- 2. Open the cable entry blocks.

Note: The cable entry and antenna box can be moved to different locations, and the door can be repositioned. For more information, see *UltraSite EDGE BTS User Manual*.

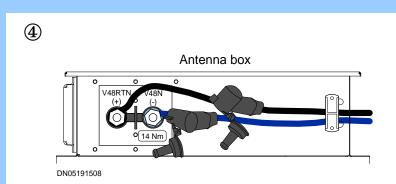
3. Ground the cabinet.



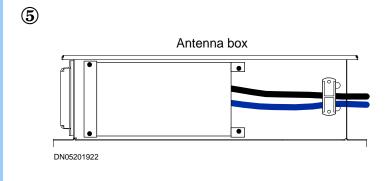


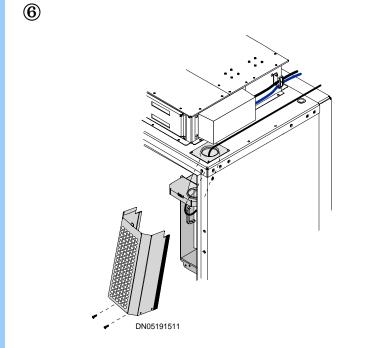


5. CABLING THE CABINET (CONTINUED)



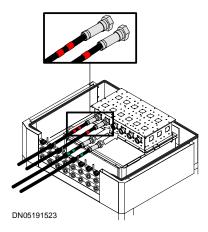
- 4. Connect the –48 VDC cables.
- 5. Install the –48 VDC filter terminal cover.
- 6. Route the transmission cable.





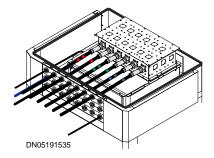
5. CABLING THE CABINET (CONTINUED)



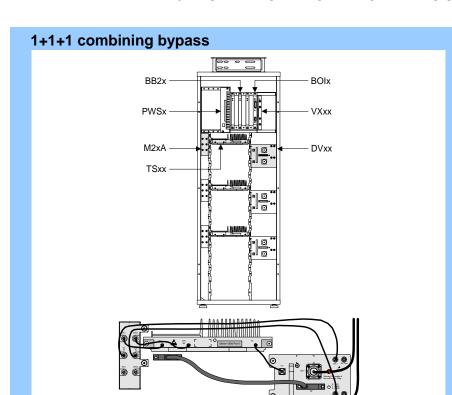


- 7. Connect the external antenna cables.
- 8. Close the cable entry block.

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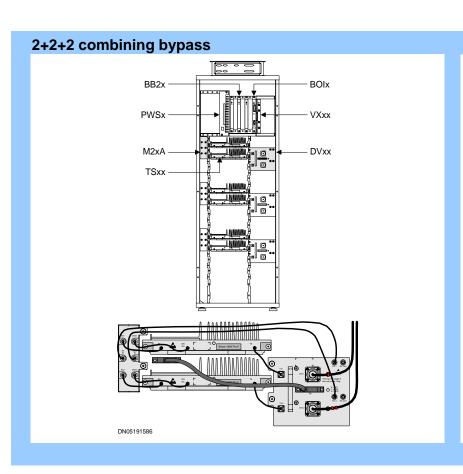


6. INSTALLING AND CABLING THE BTS UNITS



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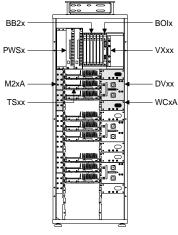
- 1. Install the units.
- 2. Install the baseband cables.
- 3. Install the RF cables.
- 4. Connect the transmission cable(s) to the VXxx unit and replace the cover.
- 5. Connect the preinstalled internal antenna cables to the DVxx units.

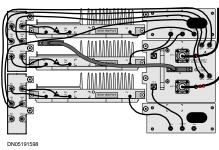


- 1. Install the units *except* the TSxx units.
- 2. Install the baseband cables.
- 3. Install the TSxx units.
- 4. Install the RF cables.
- 5. Connect the transmission cable(s) to the VXxx unit and replace the cover.
- 6. Connect the preinstalled internal antenna cables to the DVxx units.

6. INSTALLING AND CABLING THE BTS UNITS (CONTINUED)

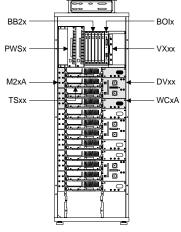
3+3+3 two-way WBC

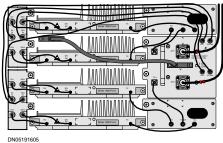




- 1. Install the units *except* the TSxx units.
- 2. Install the baseband cables.
- 3. Install the TSxx units.
- 4. Install the RF cables.
- 5. Connect the transmission cable(s) to the VXxx unit and replace the cover.
- 6. Connect the preinstalled internal antenna cables to the DVxx units.

4+4+4 two-way WBC





- 1. Install the units *except* the TSxx units.
- 2. Install the baseband cables.
- 3. Install the TSxx units.
- 4. Install the RF cables.
- 5. Connect the transmission cable(s) to the VXxx unit and replace the cover.
- 6. Connect the preinstalled internal antenna cables to the DVxx units.