NBN® ENTERPRISE ETHERNET BUSINESS NETWORK TERMINATION DEVICE (BNTD) LOCATION GUIDE

This guide outlines the installation requirements for your nbn Business Network Termination Device (BNTD) to ensure appropriate positioning for a reliable connection.

Where it's installed

The nbn BNTD is the equipment installed at your premises that enables your nbn Enterprise Ethernet service. It is typically installed in a server room or communications room to support reliable, business-grade connectivity.

Wall and rack-mount options

Your nbn BNTD will either be wall or rack-mounted. To support safe access, maintenance and performance, the BNTD installation must meet the nbn and building safety standards, including the **nbn Business Equipment Location Requirements Guide**. Your installer will manage this, but it's helpful to ensure suitable space is available in advance.

Wall mount

The nbn BNTD and Alternating Current (AC) Power Supply Units (PSUs) will be housed in a coated metal enclosure fixed to a suitable wall.

The selected wall must be flat and appropriately constructed to support the installation of the nbn equipment enclosure. Health, Safety & Environment (HS&E) and nbn engineering standards also require the wall to meet specific minimum and maximum measurement criteria. These are outlined at a high-level in Figure 1a and 1b, with further detail available in the nbn Business Equipment Location Requirements Guide.

To ensure safe access and optimal operation, you must ensure that no obstructions are placed in front of the BNTD.

If the BNTD is installed inside a cupboard or cabinet, there must be enough surrounding space to meet ventilation and access requirements.

Figure 1a. Wall mount – front view

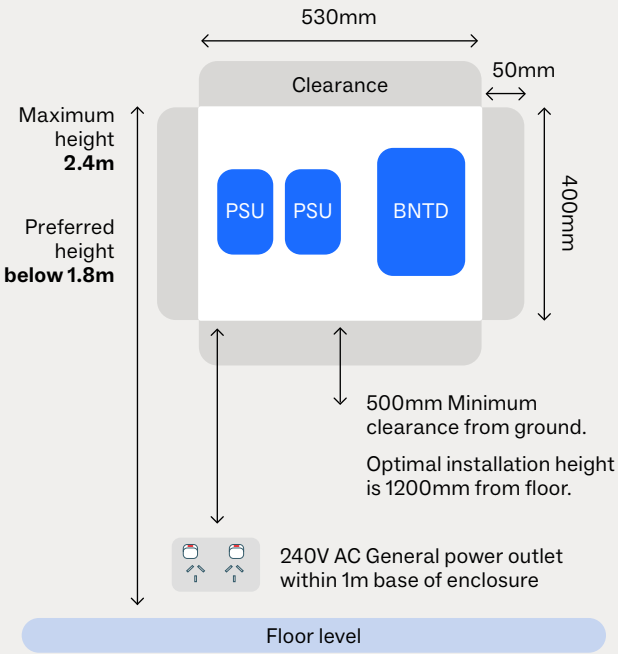


Figure 1b. Wall mount – side view

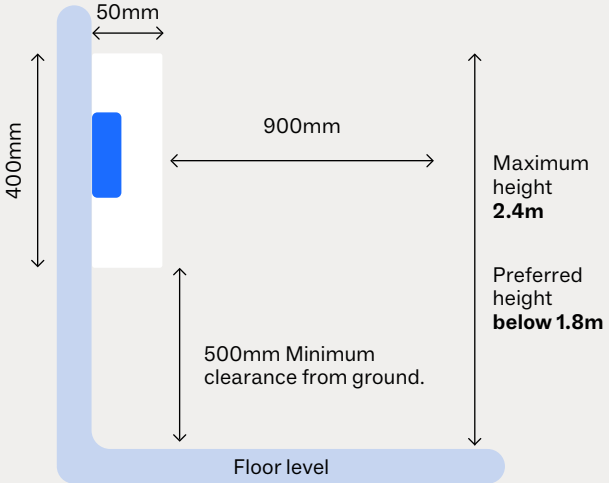
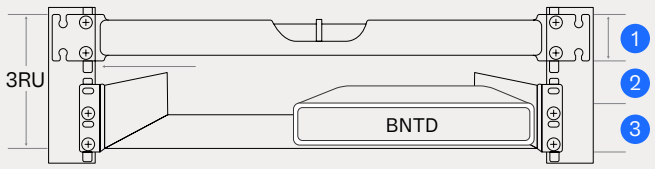


Figure 2a. Rack-mounted tray clearance requirements



1. 1RU vented fibre management
2. 1RU Clearance, mandatory for cooling BNTDs
3. 1RU BNTD and BNTD tray

Figure 2b. 1Gbps BNTD cooling vents clearance requirements

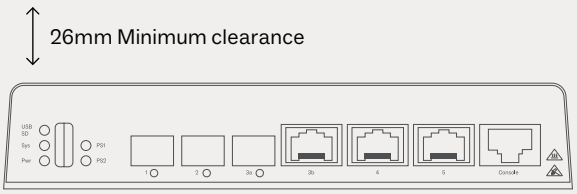


Figure 2c. 10Gbps BNTD cooling vents clearance requirements

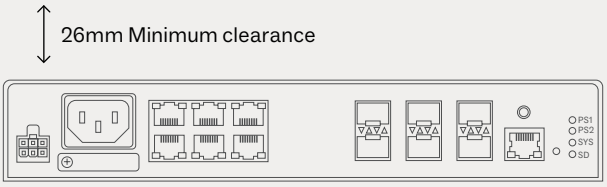
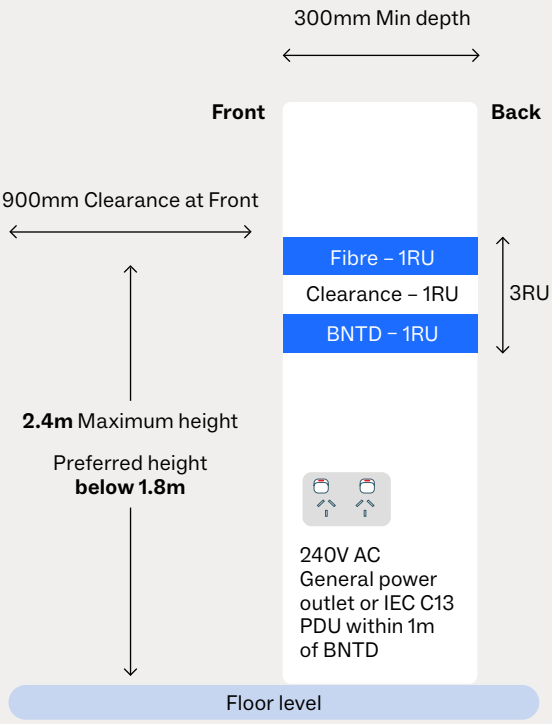


Figure 2d. Rack front clearance - side view



Rack mount

BNTD and PSUs can be installed in a suitable customer-supplied communications rack if one is available. If a rack-mounted solution is required, you will be responsible for providing the rack.

Equipment space requirements are specified in **Rack Units (RU)**. The rack and surrounding area must meet specified minimum and maximum measurements to allow for correct equipment placement, clearance, and ventilation. These requirements are shown at a high level in Figures 2a, 2b, 2c, and 2d.

If you select a rack-mounted solution, you should ensure no other equipment is placed in the reserved rack space. The provided rack must have clear access from the front with no obstructions for safety and optimal operation.

To support ease of installation and to ensure nbn personnel have sufficient access for installation and ongoing maintenance, a minimum front clearance of 900mm is recommended.

Further detail is available in the Equipment Location Requirements Guide.

Power and earthing

Earthing and power connections should be as per Australian wiring standards – these specifications will be amended from time to time.

nbn Enterprise Ethernet requires the customer to provide either of the following:

- 240V AC General Power Outlet (GPO) per AC PSU ordered. The GPO should be located within 1000mm.
- DC 2A circuit breaker per DC PSU ordered on a 48V DC Distribution Panel.
  A communications earth terminal and/or rack earth is required.

Note: this option is only available with a rack-mounted solution.

Find out more in the nbn Business Equipment Location Requirements Guide, **here.**