

Enterprise Ethernet Business Network Termination Device (BNTD) Location Guide

The purpose of this guide is to help you understand the installation requirements for your business nbn™ Enterprise Ethernet equipment.

Location

The ideal location for a Business Network Termination Device (BNTD) is a server room or communications room. However, if these spaces are not available then a similar space can be utilised if it complies with the **business nbn™ Equipment Location Requirements Guide**. This guide includes a list of prohibited locations.

Wall and rack-mount options

Your nbn™ supplied equipment will either be wall or rack-mounted. This must comply with the relevant standards, including **business nbn™ Equipment Location Requirements Guide** and Building Code of Australia Volumes 1 and 2 for safety and maintenance purposes.

Wall mount

The BNTD and AC Power Supply Units (PSUs) will be housed within a coated, metallic enclosure that is fixed to a suitable wall. This may be inside a cupboard or cabinet that complies with minimum clearances and ventilation requirements.

Rack mount

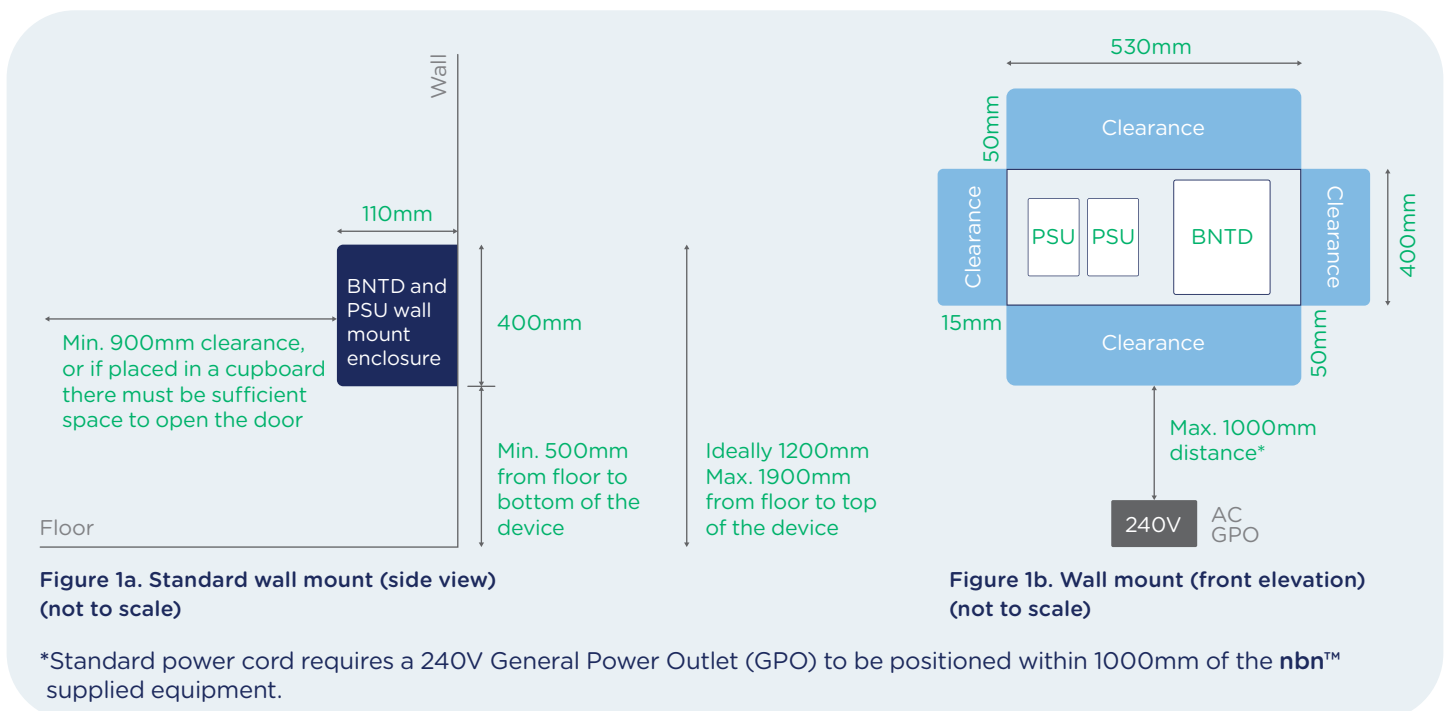
BNTD and PSUs can be installed in a suitable customer-supplied rack if one is available. Minimum space and clearance requirements must be met by the available rack space.

Wall mount

The chosen wall must be flat, and suitably constructed for fixing the nbn™ supplied equipment enclosure. Health, Safety and Environment (HSE) standards and nbn engineering standards require that the wall must also meet a set of both minimum and maximum measurements. These are outlined at a high level in **Figure 1a** and **1b**; further detail is available in the **business nbn™ Equipment Location Requirements Guide**.

The customer should ensure no obstructions are placed in front of the BNTD, for safety and optimal operation.

Where the wall mount enclosure is placed within a cupboard or cabinet, the space must meet minimum ventilation requirements.



Rack

The customer must supply the rack, if requiring a rack-mounted solution. The rack and surrounding area must meet minimum and maximum measurements, for equipment placement, clearance and ventilation. These are outlined at a high level in **Figure 2a, b and c**; further detail is available in the **business nbn™ Equipment Location Requirements Guide**.

Customers selecting a rack-mounted solution should ensure no other equipment is placed in the reserved rack space.

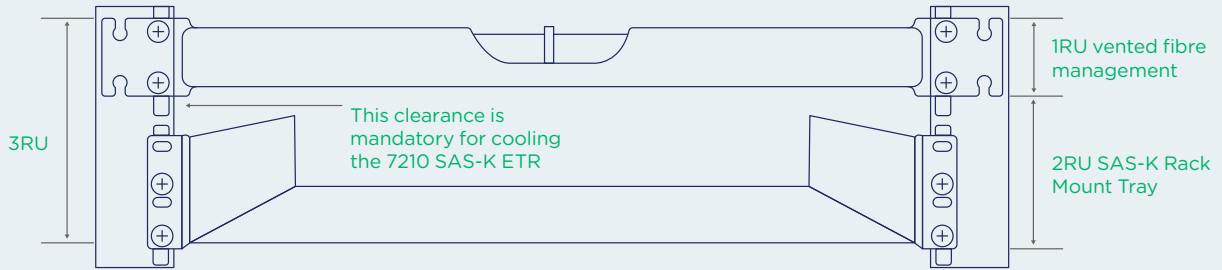


Figure 2a. Fibre and BNTD tray clearance requirements for rack solution



Figure 2b. BNTD cooling fins clearance requirements

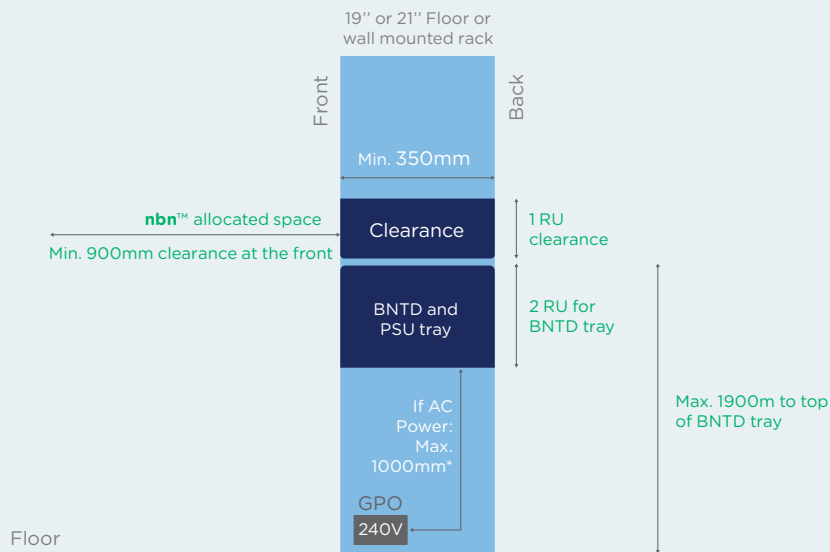


Figure 2c. Rack mount (side view) (not to scale)

Power and earthing

Earthing and power connections should be as per AS/NZS3000:2018 - these specifications will be amended from time to time.

business nbn™ Enterprise Ethernet requires either a customer-provided:

- 240V AC 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.

Learn more by reading the **business nbn™ Equipment Location Requirements Guide** found at nbn.com.au/fibreforbusiness