



Standard Service Equipment

Each member of Allband Communications Cooperative will have an Optical Network Terminal (ONT) installed on their house or business as shown in Figure 1. The ONT is a hardened, weather-proof device that is built to withstand the harsh weather of both winter and summer. **This unit is supplied, installed, and maintained by Allband free of charge with service.**

Two phone lines and a port for Internet access are available in each unit over a fiber optic cable, which will be buried and connected to the ONT on the premise of each customer. These units are typically attached to the outside of the premise or inside a garage and then grounded for lightning protection. Standard telephone and Internet cable from the inside of the premise will then be connected to the ONT for service.

Allband will work with each member to determine the best location for the NID and will ensure that each unit is installed correctly and to the satisfaction of each member. Additionally, Allband will consult with each member to determine if any additional inside wiring is needed and how to efficiently connect it to the ONT.



The dimensions of each unit are:
Height: 16 inches (40.6 cm)
Installed Height: 50 to 60 inches
(1.3 to 1.5 m above grade)
Width: 12 inches (30.5 cm)
Depth: 4.5 inches (11.4 cm)

Each ONT (Figure 1) must be connected to a battery back-up unit as shown in Figure 2. If there is a power loss, this unit will supply power to the ONT, but restricts use to the phone line(s) only. These units are typically wall mounted inside the member's premise across from the outside ONT or next to an ONT that is installed inside a premise. The unit requires a standard electrical outlet and must be plugged in at all times.

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Figure 2
Battery Back-up

Each Allband ONT is able to connect with traditional telecommunication wiring that may exist in each members premise:

Traditional Category 5 phone wire as shown in Figure 4 will be connected to the ONT and can supply phone access to any desired phone jack location in the premise.

Each ONT can supply up to 2 lines per premise, or 4 if requested.

A Category 5 cable (Figure 5) is required to connect a computer to the ONT for Internet access. It may be desirable for each member to hire an inside wire specialist to install Cat 5 wire in the premise if multiple computer locations are desired. If a member desires to network multiple computers with wiring or a wireless application, consulting can be obtained from Allband or an inside wiring specialist that is working on behalf of Allband.

If a premise has coaxial television cable installed (Figure 6), this cable can be utilized to provide Internet access and in unique situations, phone service. Allband or an outside contractor will provide consulting to best determine how premise wiring that is already installed can be utilized and if new wiring is required. Allband will provide a list of approved contractors when requested.



Figure 1
Cat 3 Phone Wires



Figure 2
Cat 5 Data (Internet) Cable



Figure 3
Coaxial Cable

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