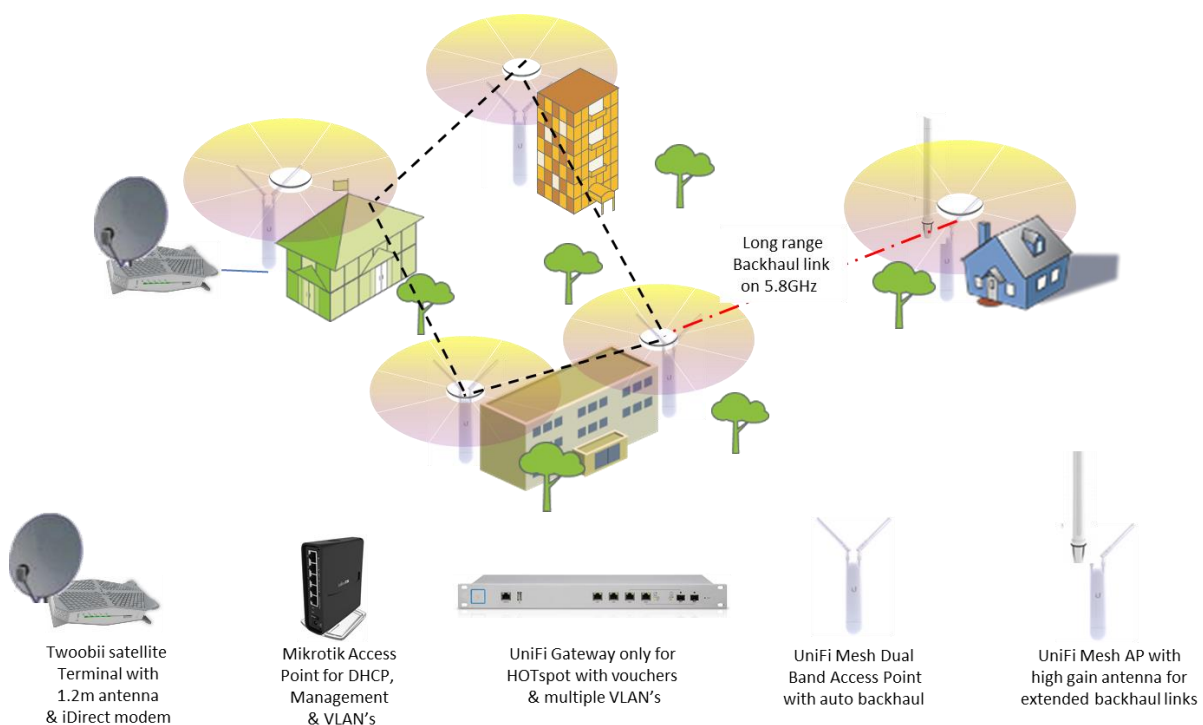


Twoobii WiFi Campus Solution

The Twoobii business Internet access solution is the preferred option to connect “off-grid” business operations such as Lodges, retail operations, commercial farms etc. In many of these scenarios the need for connectivity includes an on-site Wi-Fi network to connect all the different business operations.

This Twoobii Wi-Fi solution was developed as a reference to provide a cost effective and easy to implement network with effective remote management options. The design concept and network elements are shown below.



Functions & Features

- Standardised network options to ease multiple site deployments and remote support by the Support Teams.
- Wi-Fi access for point-of-sale readers, corporate users, guest users and public hotspot users with vouchers.
- Dual band Wi-Fi access on 2.4GHz and 5.8GHz.
- Data security and management via different VLAN's.
- Designed for Point-of-Sale, Corporate Data and Broadband traffic.
- Dual band Wi-Fi access on 2.4GHz and 5.8GHz.
- Extended indoor coverage (30m) by adding additional Wi-Fi access points.
- Extended backhaul link range (150m) by adding external high gain antenna.
- Seamless integration of gateway when HOTspot features are required.

Typical Customer Network

For the purpose of scope the network requirements it is recommended that customer network planning is done with the aid of Google maps and Wi-Fi signal level modelling. In the scenario below the 4 different areas is services by 4 UniFi AC Mesh Access Points with high gain external antennas to implement the backhaul links between the areas. Local access to user devices in each area is provided on the 2.4GHz channel with 5.8GHz used for the backhaul links.

The equipment schedule to implement this network is;

- Twoobii satellite access terminal including 1.2m and iDirect modem.
- Mikrotik hAP dual access point
- 4 UniFi UAP Mesh access points.
- Each UniFI AP equipped with a 7dB 5.8GHz external omni directional antenna.
- Cables and mounting hardware
- Should a public HOTSpot with payment vouchers be required then the UniFI Security Gateway USG-PRO-4 must be added to the network.

