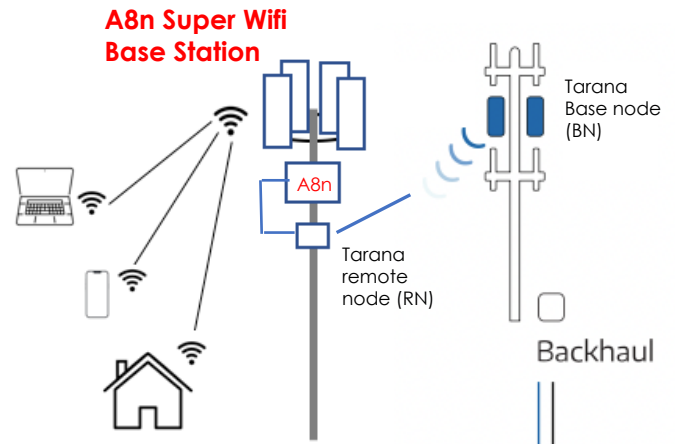## Leveraging Tarana Wireless as a High Capacity Backhaul Solution Combined with Super Wifi for Wide Area Direct Device Connectivity

In addition to Tarana Wireless serving as a powerful point-to-multi-point solution for Fixed Wireless Access delivery to homes and MDUs, the high capacity links it supports can also serve as a compelling backhaul solution for Super Wifi Base Stations. By combining Tarana with Super Wifi for direct-to-device, long-range wifi connectivity, WISPs, municipalities, and other use cases requiring direct device wifi access across expansive outdoor and indoor coverage areas can easily, and cost effectively, be addressed without the need for remote nodes and routers at every location being served.

A8n Super Wifi Base Station

Tarana Base node (BN)

Tarana remote node (RN)

Backhaul

The Altai Technologies A8n Super wifi macro base station is a dual band radio supporting 2.4 and 5ghz bands delivering bi-directional connectivity to any standard wifi-enabled device over distances of up to 3/4 mile while supporting 255 concurrent data sessions and 1000+ associated connections.

The A8n (ac) is a multi-radio base station utilizing 8x8 MIMO smart antenna technology and a patented signal processing algorithm to provide the industry's best coverage from a single Access Point. The radio accommodates up to four multi-beam 2.4 Ghz sectored antennas and one sectored, or omni directional 5Ghz Antenna - all of which can be configured to provide coverage optimized for area, pattern and elevation.

A8n Super Wifi Base Station

Super Long Range High Throughput Coverage

Max. LOS CPE	3 km (2.4 GHz) 2 km (5 GHz)
Max. LOS Smartphones	1 km (2.4 GHz) 900 m (5 GHz)
Max. LOS Backhaul	30 km (5 GHz)
Max. Data Rate	300 + 867 Mbps

The Altai A8n (ac) can serve as a last mile infrastructure solution for a wide range of wireless broadband access applications with a comparatively low deployment cost and quick provisioning
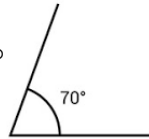
While Tarana Wireless Base Node (BN) technology is unmatched in its ability to navigate through challenging landscapes to deliver high capacity connectivity, it requires a Remote Node (RN) at the premise as well as a Cat 6 connection from the RN to a wifi router to provide wifi connectivity for end user devices. By leveraging the high capacity connection off of a Tarana RN as backhaul, Super Wifi base stations can provide direct wifi device connectivity for instances where installation of individual RNs is not feasible, or support for nomadic connectivity is required. Large campus settings, sporting parks, public squares, marinas, campgrounds, outdoor shopping districts… etc all represent ideal candidates for combined Tarana / Super Wifi deployment opportunities.

Super WiFi APs are particularly effective for expansive outdoor use cases due their long range and ability to address challenging Line-of-Sight

In addition to the A8n, other Macro and Micro Super Wifi Base Stations are listed below providing a an array of directional and omni coverage options designed to address a wide variety of use cases.

A8 Ein
Super Wifi
Sectored Macro
Base Station

70°

Super Long Range High Throughput Coverage

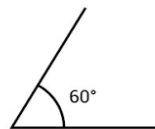| Max. LOS CPE	4 km (2.4 GHz) 1.7 km (5 GHz)
Max. LOS Smartphones	1.7 km (2.4 GHz) 900 m (5 GHz)
Max. LOS Bridge	30 km (5 GHz)
Max. Data Rate	300 + 867 Mbps

A8 in
Super Wifi
Omni Macro
Base Station

360°

Super Long Range and High Throughput Coverage

Max. LOS CPE	2.7 km (2.4 GHz) 1.7 km (5 GHz)
Max. LOS Smartphones	1 km (2.4 GHz) 900 m (5 GHz)
Max. LOS Backhaul	30 km (5 GHz)
Max. Data Rate	300 + 867 Mbps

A3 Ei
Super Wifi
Sectored Micro
Base Station

60°

Super Dual-band Coverage

Max. LOS CPE	3 km (2.4 GHz) 2 km (5 GHz)
Max. LOS Smartphones	1 km (2.4 GHz) 800 m (5 GHz)
Max. LOS Bridge	11 km (5 GHz)
Max. Data Rate	450 + 1300 Mbps

About Krysp Wireless

Krysp Wireless is Altai Technologies' Distributor for the US and Canada with offices in Kansas City and Toronto focused on building scaled distribution for Altai's product line through a network of highly qualified integrator partners.

About Altai Technologies' Super WiFi Product Line

Super WiFi has been deployed extensively around the world beginning in 2007 to address the most challenging wireless access use cases where traditional WiFi vendors' products fail to deliver the desired coverage, or prove too costly due to the high number of required access points.

Primary examples where Super WiFi regularly differentiates itself from other WiFi products include expansive outdoor applications, challenging line of sight environments, and RF interference laden locales such as manufacturing facilities and other heavy industrial settings.

Altai's extensive product line supports connectivity for any WiFi enabled device and includes large macro base stations capable of delivering bi-directional coverage for up to a mile in addition to a host of other micro and pico cell access points, repeaters and wireless bridging products.

Contact Krysp Wireless to connect with one of our qualified integrator partners:

✉ : info@kryspwireless.com