TŪ ĀTEA

Māori Spectrum & Telecommunications

Remote & Rural Connectivity

PRIVATE 4G / 5G NETWORKS
PORTABLE COVERAGE SOLUTIONS

Kiwi

Fixed (shared infrastructure) outdoor small-cell solutions, suitable for outdoor applications, providing ≈ 1km+ coverage range (terrain dependent). **Typical Use Cases:** Providing permanent private 4G/5G network and/or neutral host voice/data mobile coverage to remote marae or communities.

Miro Miro

Our small, desktop-form-factor small-cell solution, suitable for indoor deployments, providing localised indoor and ourdoor coverage. **Typical Use Cases:** Temporary or permanent indoor private 5G network for enterprise, and/or neutral host voice/data mobile coverage for remote police/fire/ambulance community centres.

Kāhu

Largest of our deployable small-cell solutions, suitable for temporary outdoor applications, providing localised coverage. **Typical Use Cases:** Temporary coverage for mobile blackspots, civil defense disaster relief, special event (i.e. broadcast-livestreaming), ag-tech private 4G/5G network wireless connectivity.

Tūī

Our medium sized small-cell solution, suitable for rapid temporary outdoor deployments, providing localised coverage. **Typical Use Cases:** Temporary compact rapid deployable voice and data neutral host coverage solutions for civil defense disaster relief.

RAN

Technology	N78 5G
TX Power	20W/TX Port
Current Service	Private 5G NW
Future Service	P5G + Commercial Coverage
Typical Performance (Subject to StarLink performance)	DL/UL 145/45 Mbps

RUNTIME | Assume 50% RAN load, no local core

Worst case (no sunlight hours): 2-3 days
Best case (Summer, North Island): 2-3 months

COVERAGE RANGE

Mast height: 10m
Coverage Range (unobstructed terrain): ≈ 1km radius

RAN

Technology	B40 4G
TX Power	5W/TX Port
Current Service	Private 4G NW
Future Service	P4G + Commercial Coverage
Typical Performance (Subject to StarLink performance)	DL/UL 110/12 Mbps

RUNTIME | Assume 50% RAN load, no local core

Worst case (no sunlight hours): ≈ 1 month
Best case (Summer, North Island) ≈ 2-3 months

COVERAGE RANGE

Mast height: 4m
Coverage Range (unobstructed terrain): ≈ 500m radius

TŪ ĀTEA

Connecting Māori to spectrum opportunities.
We're building an eco-system for Māori to participate
and innovate in the telecommunications sector.

Garth Spencer
garth.spencer@tuatea.nz
+64 27 267 8577