

Oasis Industrial CPE

The ruggedized node that puts machines, trailers, and crews on the site network, and extends coverage while it does it.

Unit at a glance

Role	Dual-role: client to the ORB uplink and coverage node for everything around it
Uplinks	TVWS-LTE, CBRS, 5.8 GHz, and Wi-Fi HaLow, selected and re-selected automatically
Local coverage	Wi-Fi and HaLow for cab devices, tablets, cameras, and sensors within its zone
Safety profile	NR+ C2 participation in the deterministic mesh, independent of site data traffic
Mounting kits	Machine-Mount, Fixed-Mount, and Portable, sharing one electrical interface
Park Mode	Holds the mesh and local coverage alive when the machine is shut down

Where each kit goes

Machine-Mount bolts to a cab rail or canopy with isolated mounts and sealed connectors, rated for boom impact and all-day vibration. **Fixed-Mount** serves site offices, gates, scale houses, and the Smart Trailer. **Portable** travels with a crew for survey, inspection, and spot work at the tail of the site. Because every kit is the same electronics, a fleet is one spares pool and one commissioning procedure. Installation is a non-specialist task: mount, power, and the unit joins the coordinated network on its own.

Fleet notes

Commissioning	Mount, power, join. No RF configuration and no per-unit provisioning visit
Isolation	Aperture separation and filtering keep client and coverage radios from fighting each other
Scaling	Coverage grows with the fleet: each machine on site is also a piece of the network
Commercial paths	Per-unit purchase within a fleet, or bundled into a site-month rental

Specification suite v0.9, draft for partner review. Hardware in pilot allocation. Stage a pilot or request the full specifications at project--a6d02ee2-fe33-4959-a96d-dd4c3d9d55dc.lovable.app/contact