

TERRAVISION ZETEL **PRIVATE LTE & 5G NETWORKS**

Australian-Owned Industrial Communications Infrastructure



25+ years of proven history in industrial telemetry and communications. Australian innovation for Australian challenges

EXECUTIVE SUMMARY

The Challenge

Remote operations such as mining sites and industrial facilities require mission-critical connectivity. Traditional telecommunications infrastructure is expensive, unreliable in remote locations, and leaves operations vulnerable to vendor lock-in and foreign interference.

The ZETEL Solution

TerraVision Zetel delivers turnkey Private LTE and 5G networks purpose-built for industrial and remote applications. Unlike adapted consumer telecommunications equipment, Zetel is engineered from the ground up ready for private Australian applications.

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Deployment Models

All-in-One Compact: Single node deployment for rapid installation

Distributed Architecture: Scalable multi-site for large operations

Technology Stack

4G LTE: 3GPP Release 10-13 compliant, optimized for MTC (Machine Type Communication)

5G SA: 3GPP Release 16+ with Rel-17 features, tactile internet capability

Private Core: Zetel uNet™ EPC/5GC - MME, SGW, PGW, HSS, PCRF integrated

RAN Equipment: COTS-compatible, vendor-agnostic architecture

Edge Computing: Azure Stack integration, local processing at the Edge

Current Applications

WA Mining Operation: 40km² coverage, 61 vehicles, 7 cells, solar-powered remote sites

PNG Gold Mine (Hidden Valley): Multi-pit operation with 81 fleet assets

Island Connectivity Projects: Territory-scale network infrastructure

Industrial IoT/M2M: Data acquisition, telemetry, real-time monitoring

Applications

- Remote mining operations (proven across 40+ km² sites)
- Mission-critical industrial applications (FMS, SCADA, telemetry, safety systems)
- Sovereign infrastructure (Australian-owned, locally supported)

Proven Performance

Metric	Specification
Latency	<30ms consistently measured
Coverage	95%+ across 40km ² with strategic deployment
Uptime	99.5% standard / 99.99% with HA package
Capacity	2,000-64,000 users per installation

Why Australian Infrastructure Matters

Supply Chain Sovereignty: Local development, local support, local control
Data Security: No foreign government access, private spectrum, encrypted by default
Long-term Support: 25+ year mean time between failure, local expertise
Regulatory Alignment: Compliant with Australian standards and government requirements

