

Seamless Connectivity for Smart Container Terminals

Remote RTG &
STS Control → Terminal
Automation → Operational
Excellence → Cost
Optimization



**DELIVERING ULTRA-
LOW LATENCY FOR
MISSION-CRITICAL
PORT OPERATIONS**



ASTRADRIVE

Ultra-Low Latency Performance

Sub-30 ms response time
ensuring real-time remote
control of RTG and STS
with precision and safety

High-Capacity Infrastructure

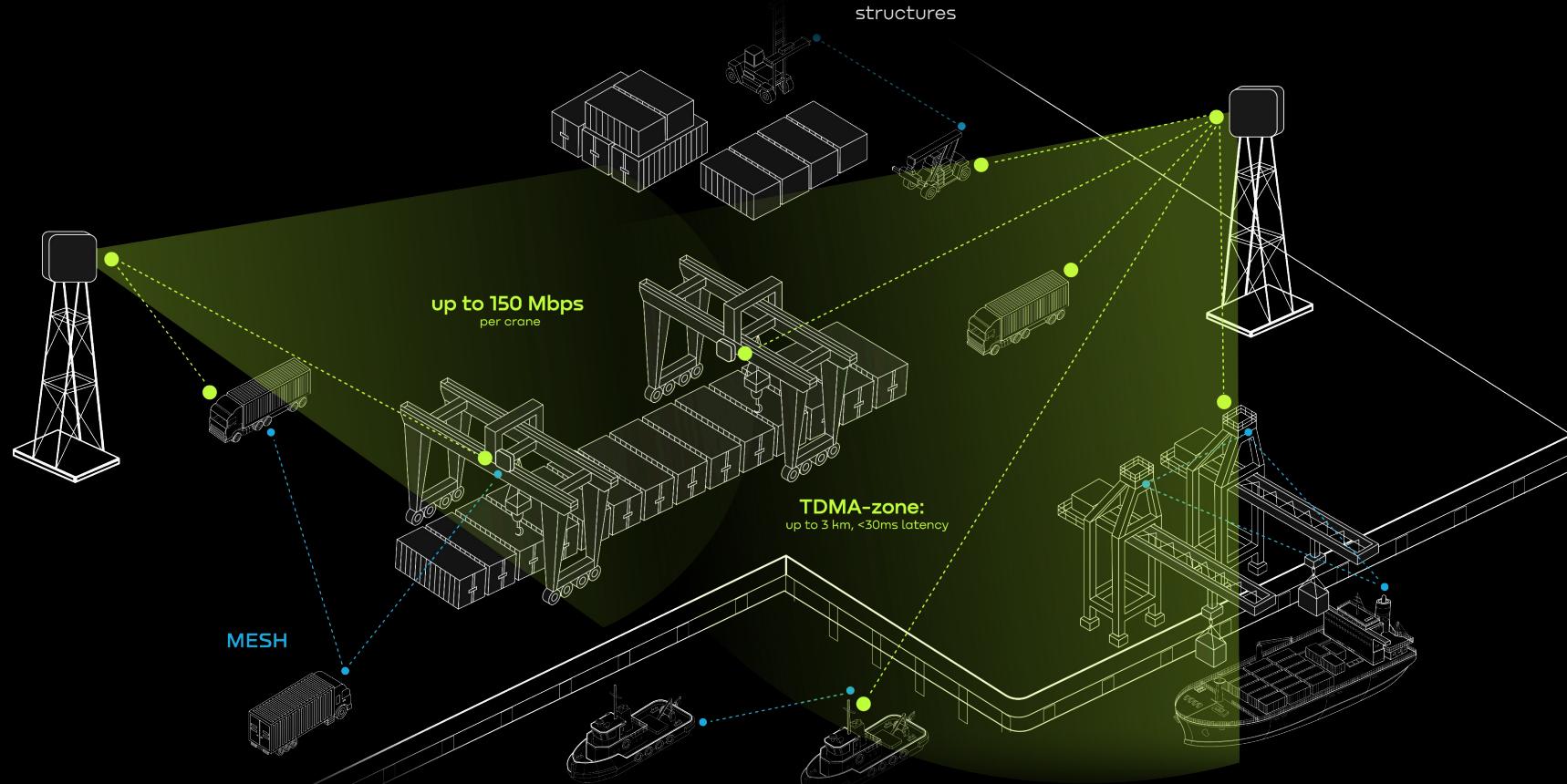
Dedicated bandwidth of
100+ Mbps, sufficient for
CCTV feeds, TOS
integration, and voice
communication

Self-Optimizing, Fail-Safe Network

Maintains performance
across moving equipment,
adapts to layout changes,
and ensures continuous
connectivity for critical
operations

Precision-Engineered For Container Terminal Operations

ASTRADRIVE is built for demanding port environments – featuring industrial-grade hardware, high-gain antennas, and ultra-low latency architecture for remote crane control, dense equipment zones, and continuous truck connectivity



Multi-Service Platform Integration

Supports TOS data exchange, HD CCTV streaming from RTG and STS cranes, clear voice communication, and remote RTG control – combining all key terminal services within one wireless platform

Adaptive Hybrid Connectivity

ASTRADRIVE combines TDMA for guaranteed low-latency performance (<30 ms) and MESH for extended coverage, ensuring stable connectivity across container yards, quay areas, and challenging NLOS conditions created by stacked containers and metal structures

End-To-End Vendor Support

Astrawireless provides comprehensive terminal network design, including precise infrastructure placement to minimize equipment count while maximizing coverage across quay walls, container yards, and gate areas. Optimization ensures cost-effective scalability for expanding terminal operations

AstraMUX-GE4-S2

Industrial switch optimizing mobile network performance, enabling traffic balancing and seamless switching between moving and fixed infrastructure



AstraMUX-GE8

High-capacity rack-mount switch for network aggregation and centralized traffic management, supporting multiple switches and base stations to ensure a stable, scalable backhaul infrastructure for offshore and onboard networks



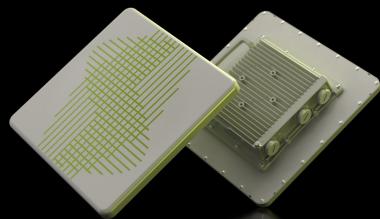
ANT-OMNI-10

Omnidirectional antenna with dual polarization, corrosion-resistant housing, and consistent 10 dBi gain across its 360° beamwidth and all operating frequencies



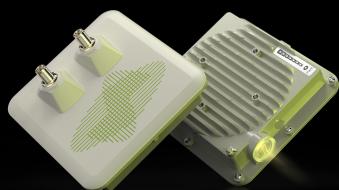
DRIVE E5-BSI

Sector base station with an integrated 16 dBi antenna, featuring a wide 90° beamwidth and throughput of up to 800 Mbps for high-performance coverage across its entire sector



DRIVE E6-STE

Subscriber terminal with external antenna connectors, delivering up to 670 Mbps of wireless throughput. Special lacquer coating ensures enhanced resistance to salt fog and harsh marine conditions



Terminal Unit

Industrial-grade module enabling high-speed, low-latency data exchange between cranes, vehicles, and terminal infrastructure – ensuring reliable control, monitoring, and traffic aggregation across port operations



Astrawireless

Develops high-capacity wireless systems for backhauls and access networks, designed for complex, high-performance environments

