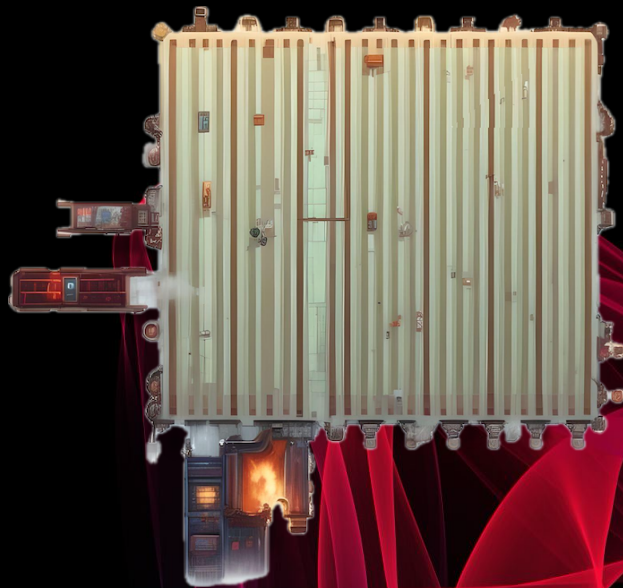




Next-Generation Software Defined Radio

TDSDR WAVE100™ - Tactical 4G/5G SDR

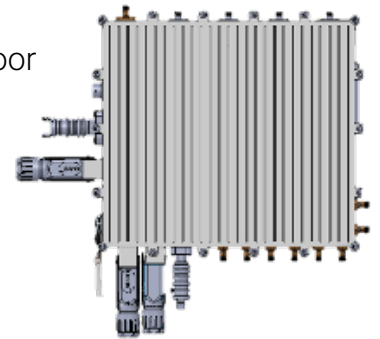


Transform your RF communications and sensing capabilities
with cutting-edge software-defined radio technology.

WAVE100™

Next-Generation Tactical/Military Communications Solution

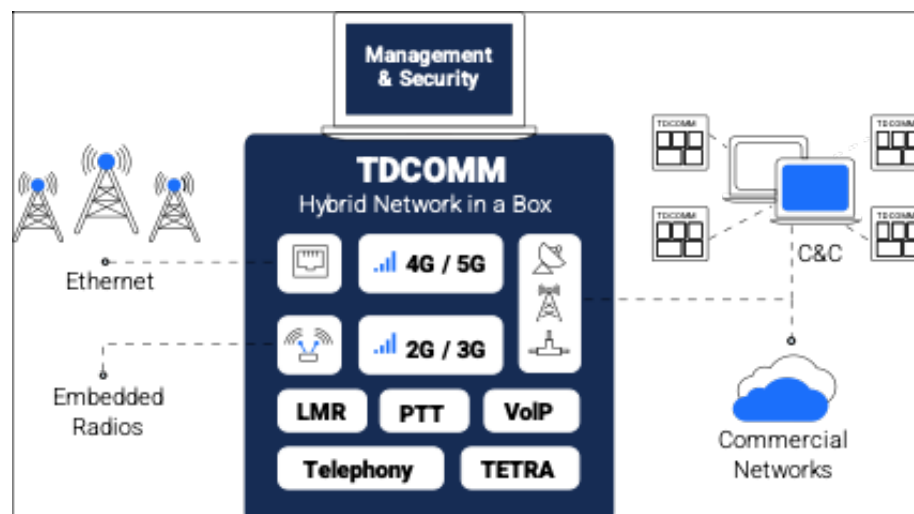
The WAVE100™ is a SDR based eNB/gNB, all-in-one sub-6 GHz outdoor solution consisting of a RU, DU, and CU in a single unit. The WAVE100™ delivers enhanced, outdoor network coverage and capacity.



400MHz – 6GHz FDD/TDD	4T4R Tx/Rx	100MHz Bandwidth	NIB/CoW Embedded	Dual Carrier Support
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Combining the best-in-breed telco class components and technologies, TDCOMM's Hybrid Network in a box supports the cutting-edge of private network capabilities, including:

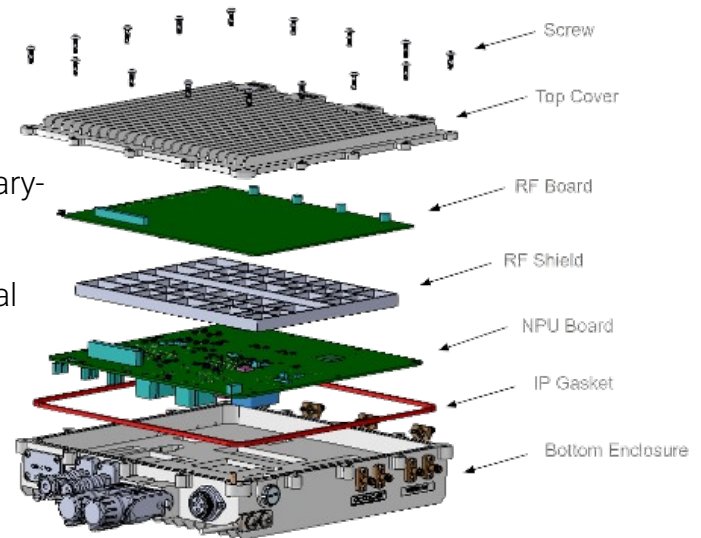
- Communication services in LTE/5G
- Technology integration for combined communications over cellular, LMR, and Tetra networks
- MCx: PTT and Video over LTE, tracking and location
- High bandwidth and performance supporting enhanced applications such as rescue robots, sensors, and cameras
- RF flexibility enabling the utilization of on-the-ground equipment for extended range and throughput
- Robust backhauling for, C&C center, mobile network, and multi-system convergence



Technical Overview

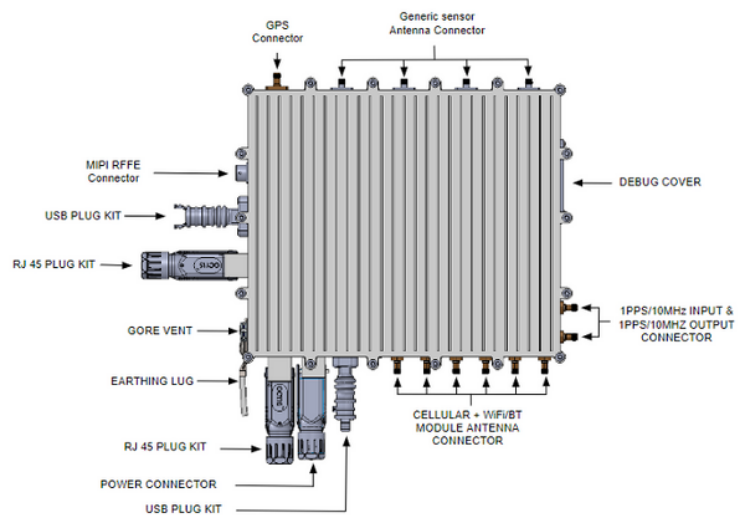
Explore the advanced engineering and design of the through detailed technical diagrams

- AiO eNB/ gNB, 3GPP Rel. 16
- Full-stack 4G/5G private network solution in a deployable SDR platform
- Supports 100 concurrent users with military-grade security
- Integrated 4G/5G core and mission-critical applications
- Compliant with DoD/MoD security requirements and Open RAN specifications
- ORAN Compliance (7.2 split)



WAVE100™-Ultra Flexible MANET RADIO-NODE

- WAVE100™ provides robust support for both 4G and 5G technologies.
- Core 4G/5G can embed (optional)
- With advanced spectrum awareness, WAVE100™ can optimize network and manage resources effectively.
- Wireless threat detection to safeguard your network against potential vulnerabilities.
- Integrated backhaul 4G/5G modem enhances data transmission efficiency, providing a reliable solution for your communication needs.



Experience unmatched versatility and performance with our cutting-edge software-defined radio platform.

With our ultimate mission in mind, we offer flexible models for evaluation and expedited implementation for you to reach operational capability levels and reduce emergency deployment time.



Simple single button operation!



7-minute setup
to operation



Control of traffic
and preset service policies



3rd party app



100 connected
users per unit



Private and commercial
SIM service, LTE & Wi-Fi



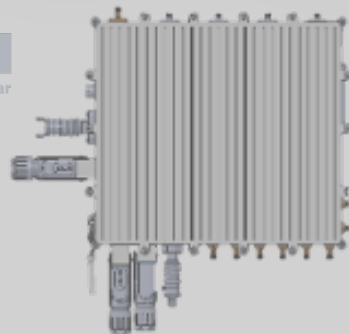
Up to 5km
coverage



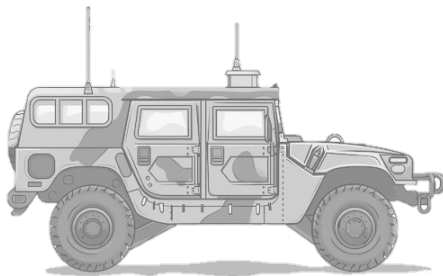
Airborne



LTE/5G



Spectrum intelligence
& dominance



LTE/5G NIB



LTE/5G Manpack-gNB

Radio Specifications

SYSTEM ITEM	DESCRIPTOIN
RADIO CONFIGURATION	SDR - 4x5w, MIMO 4T4R
4G/ 5G FDD/TDD FR1 BANBS	400MHz - 6GHz
CHANNEL BANDWIDTH	20-100Mhz
MULTI CARRIER	Supports single or dual carrier
ACTIVE USERS	Up to 100
ANTENNAS	GPS and MiMo ~10 dBi (Omni)
POWER	12-40VDC
POWER CONSUMPTIONS	Typical <150w, Max, <200w
BACKHAUL CHANNEL	Ethernet/ Cellular* / SAT
ADD-ONS	*LTE/5G Modem

PROCESSING ITEM	DESCRIPTOIN
GENERAL PROCESSING CORES	16x A72 + packet accelerators 4x A53
RAM	32GB expendable to 64GB
STORAGE	256GB SSD expendable to 512GB

PHYSICAL ITEM	DESCRIPTOIN
DIMENSIONS	275x235x70 [mm]*
WEIGHT	±8kg
OPERATING TEMP	-40°C to +70°C
ENVIRONMENTAL	IP66/ IP67* rated
HUMIDITY	5% to 95% RH
STANDADRD	CE, MIL-STD-810G environmental, FCC*

COMPLIANCE ITEM	DESCRIPTOIN
3GPP	3GPP Spec Compliance: Rel 16
O-RAN	O RAN Compliance: V2

TDCOMM Company Profile

TDCOMM provides private LTE and 5G networks for optimizing operations and ensuring business continuity.

Aware of the growing complexities in the wireless environment and the challenges of network management: TDCOMM embeds state of the art automation and AI driven technologies to simplify network operation and ensure its optimal performance.

Dedicated to support existing IT, security, and operation teams - TDCOMM provides customers with an advanced, yet intuitive, management platform providing deep network insights and policy enforcement functions.

Categories

- Private LTE
- Rapid Deploy
- 5G Networks
- Mobile Edge Computing
- Network management
- Network security

To get your own TDCOMM, contact us today:



www.tdcomm.tech |



sales@tdcomm.tech