

Data Sheet

VIAMI

TMLite Functional Tester

TMLite offers a UE Simulator delivered on a smaller hardware platform. It has been designed for functional and early performance testing making it ideal for early feature development compared to real handsets.



Features and Capabilities

- Supports 2 CC NR (2x2 / 4x4) @ 100 MHz over RF
- Supports Multi-RAT 5G & 4G
- Supports RF Front End
- Supports O-RAN Front End
- 3GPP Layered mode testing
- Supports real data application with up to 2 Gbps aggregated downlink throughput when connected to RDA Server
- Supports up to 3GPP Release 16 features and tracking
- Same comprehensive debugging, logging and automation tools as the flagship TM500
- Same software designation, quality, and stability attributes as the TM500
- Supplied as a single 2U 19" server

Feature Matrix Summary

Functional scope	Product specifications
Test interface	RF, O_-RAN
Test Modes	PDCP, NAS, MTS
Number Users	1
5G NR	SA, NSA
Number of UEs	Up to 32
MIMO	2x2, 4x4
FRx, RAT	FR1, FR2, FDD/TDD
Automation	Yes (as per TM500 product family)
KPI Measurements and Logging	Yes (as per TM500 product family)
Data applications	External via TeraVM RDA Server
Bandwidth (for 2x2 & 4x4 carrier)	Up to 100 MHz
#CC (2x2) 5G	2*
#CC (4x4) 5G	2*
#CC (2x2) LTE	1*
Modulation	Up to 256QAM
Software	Based in TM500 Software (same look/feel/stability)
Front End	RF and O-RAN

*Total Number CCs/MIMO layers depends on NSA/O-RAN/BW feature combinations

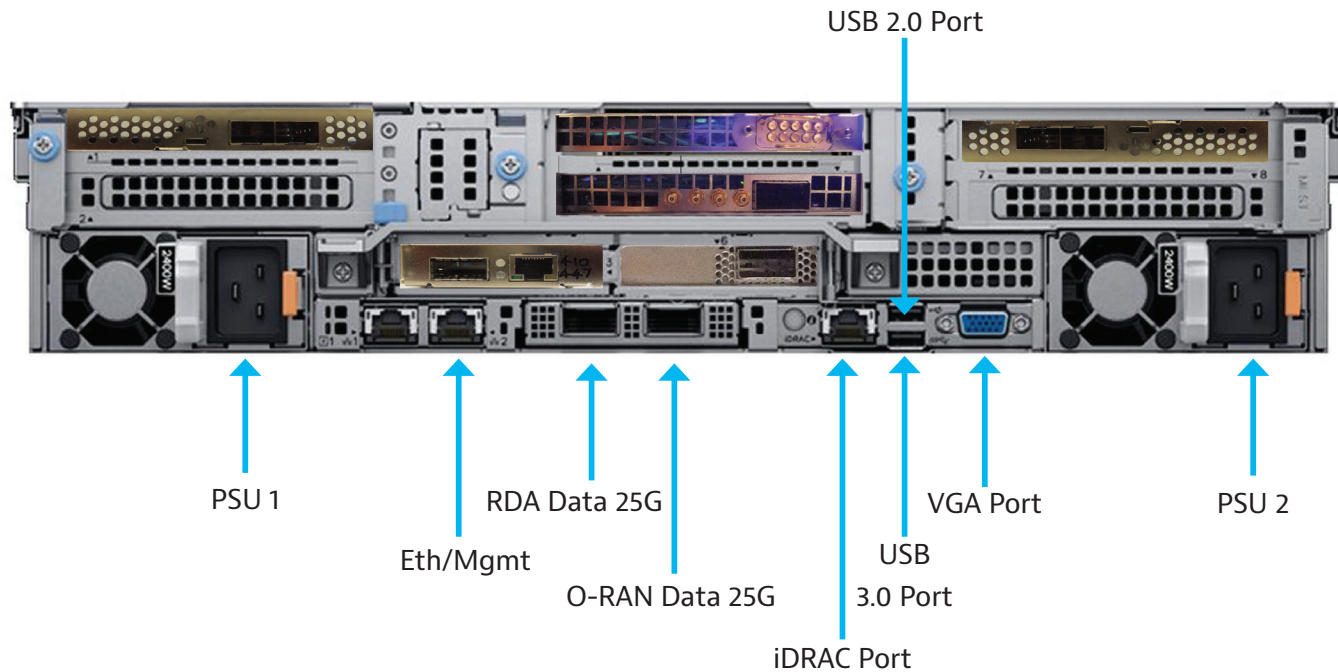



Figure 1. TMLite 2U 19" Server Rear View

Specifications

Electrical Requirements			
Power Supply			
AC Input	Input Cord	CE/UL/CCC/KCC/PSE C13 3P 13A	
	Cord Length	2.5 meters standard	
	Number of Power Cords	2	
	Nominal Input Voltage	230 V, AC	
	Rated Input Voltage	100 - 240 V	
	Input Frequency	50/60 Hz	
Power Consumption			
1.1 kW			
Cooling			
Air cooled front to back			
Physical			
19" 2U Server	Dimensions (W x H x D)	483 x 88 x 741 mm 19" x 3.5" x 29.2"	
	Weight	23 kg Note: The actual weight depends on the configuration.	
Maximum Sound Level			
Power (LwAd): <70 dBA Sound pressure varies considerably depending on the distance and orientation of the observer relative to the system			
Operating Environment			
Ambient	Dry bulb temperature	5°C to 35°C	
	Relative humidity	8% to 85%	
	Max Dew point	24°C	
	Max Temp change rate	20°C / h	
	Derate	1°C / 300m above 950m	
Mechanical Parameters	Shock	Shock spectrum	Half sine
		Duration (ms)	11
		Acceleration (m/s ²)	30
Transportation and Storage Environment			
Ambient	Dry bulb temperature	-25°C to 70°C	
	Relative humidity	Up to 95% at 40°C	
Mechanical Parameters			
Random Vibration			
Frequency	5 – 20 Hz	1 ASD (m ² /s ³)	
	20-200 Hz	-3 ASD (dB/oct)	
Shock	Shock spectrum	Half sine	
	Duration (ms)	11	
	Acceleration (m/s ²)	50	
Free Fall			
Height (cm)	0		

Electromagnetic Compatibility	
Emissions	EN 61326-1 CISPR 11 Class A Group 1
Immunity	EN 61326-1 Controlled environment
CE Compliance	Meets the essential requirements of applicable European Directives.
General	
Standard Warranty	12 Months
Safety	IEC 61010-1/EN 61010-1 Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements
UK Conformity Assessed	This product conforms with all applicable UKCA marking directives 

Ordering Information

Product Code	TMLITE: 5G FUNCTIONAL TESTER Optional external RDA server
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