Data Sheet

VIAVI
TMLite

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

- Support for 1 NR (2x2 / 4x4) Carrier system

- 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

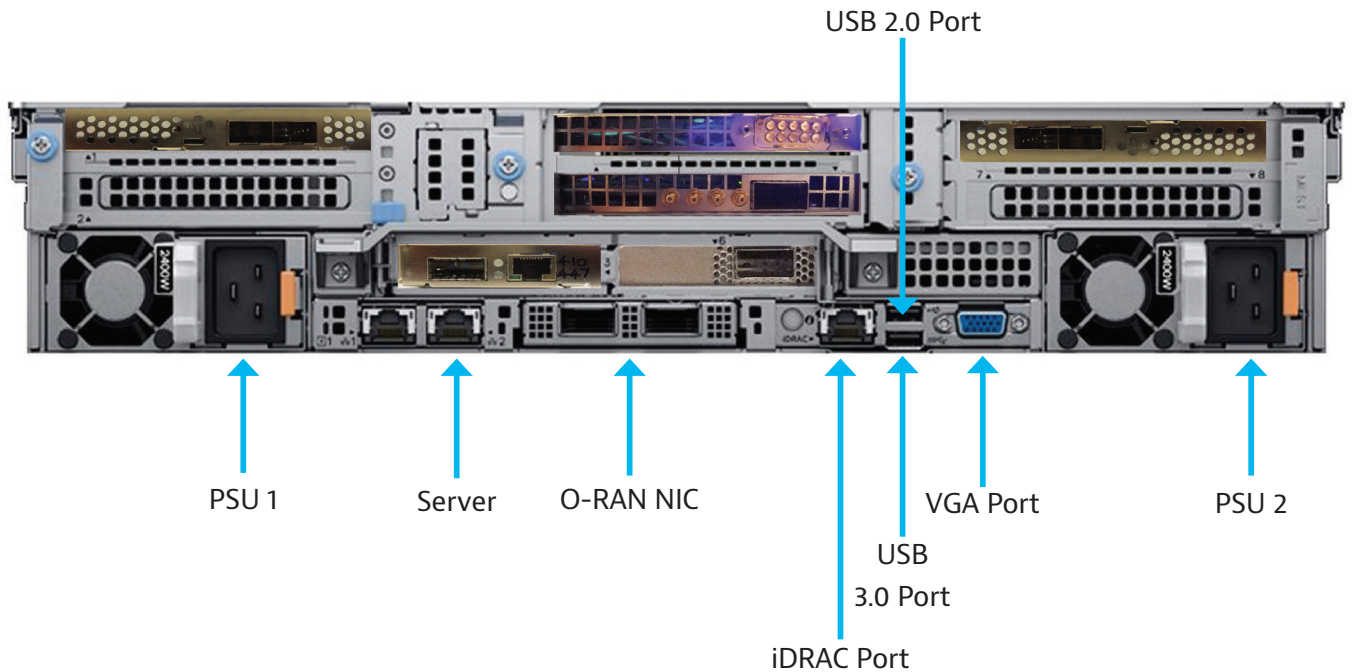| Functional scope	Product specifications
Test interface	RF
Test Modes	PDCP, NAS, MTS
Number Users	1
5G NR	SA, NSA via Interconnect
Number of UEs	Up to 32
MIMO	2x2, 4x4
FRx, RAT	FR1, FR2, FDD/TDD
Automation	Yes (as per TM500 product family)
KPI Measurements and Logging	Yes (as per TM500 product family)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

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 kW per server

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	27 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/s²)	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 (m2/s³)
	20-200 Hz	-3 ASD (dB/oct)
Shock	Shock spectrum	Half sine
	Duration (ms)	11
	Acceleration (m/s²)	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

Ordering Information

Product Code	
	TK1071 TMLite One Server Platform (for 1CC 2x2/4x4 SA NR)
	TK1086 TMLite Interconnection Kit (if NSA is also required)