



A RAPIDTEK PORTFOLIO



WIRELESS TEST SOLUTIONS

PRODUCT LINE CARD

ALIFECOM WIRELESS TEST PORTFOLIO

SIGNALING PRODUCTION TEST SDR & IP



4G - 5G - WI-FI - NTN - REDCAP

SEMICONDUCTOR - ATE FT



ALIFECOM PRODUCT LINES

ALifecom Wireless Test Portfolio - A Rapidtek Portfolio

● 4G / 5G Signaling Testers

NE6000 / NE7700 / NE8000

● ACTiV Universal Tester

ACTiV 2.0 for Wi-Fi 6/6E and ACTiV 3.0 for Wi-Fi 7

● WiFi Production Test Solutions

WiFi product verification and IC final-test solutions

● 3GPP Test Solutions

4G LTE, LTE-M, NB-IoT, IoT-NTN, 5G NR, NR-NTN, 5G RedCap

● IEEE Test Solutions

Wi-Fi, Bluetooth, Sun-OFDM, LoRa, FSK, Zigbee

● Wireless IP & Core Network

4G EPC, 5GC, eNB/gNB protocol and PHY solutions

● SDR Solutions

Programmable SDR-based wireless platforms

● IP / Design Services

ORAN, SATCOM, MILCOM, FPGA, DSP, ASIC, FW, SW and integration

● Semiconductor / ATE FT

Wireless production and semiconductor final-test applications

● Wireless Technology Coverage

FR1 / FR2 / FR3, SA/NSA, Multi-DUT, NTN, WLAN and RedCap

NE6000 - 4G Signaling Tester

- LTE / LTE-A / eMTC / NB-IoT / IoT-NTN signaling test platform.
- SA; TDD/FDD; 400-3800 MHz; bandwidth 1.4/3/5/10/15/20 MHz.
- 1x1 SISO, 2x2 MIMO, 4x4 MIMO; up to 4CC; CAT1-CAT12; supports 4 UEs.

NE7700 - 5G Signaling Tester

- 5G NR FR1/FR2/FR3; NR-NTN / RedCap; SA/NSA; TDD/FDD.
- 400-7125 MHz; 100 MHz bandwidth; 1x1 SISO, 2x2 MIMO, 4x4 MIMO; 1CC.
- Up to 256QAM DL / 64QAM UL; supports up to 16 UEs.

NE8000 - 5G Signaling Tester

- 5G NR FR1/FR2/FR3; NR-NTN / RedCap; SA/NSA; TDD/FDD.
- 400-7125 MHz; 100 MHz bandwidth; 1x1 SISO, 2x2 MIMO, 4x4 MIMO; 1CC/2CC.
- Up to 256QAM DL / 64QAM UL; supports up to 16 UEs.

ACTiV 2.0 - Universal Tester

- Wi-Fi 6/6E multi-standard production and R&D test platform.
- Wi-Fi a/b/g/n/ac/ax/be; Bluetooth BDR/EDR/BLE; Zigbee, SUN-OFDM, LoRa, FSK, GPS; 4G/5G under development.
- 800-7300 MHz; up to 160 MHz BW; 4096QAM; 2 VSA/VSG sets; 8 RF ports; EVM -45 dB +/-2 dB.

ACTiV 3.0 - Universal Tester

- Wi-Fi 7 multi-standard production and R&D test platform.
- Wi-Fi a/b/g/n/ac/ax/be; Bluetooth BDR/EDR/BLE; Zigbee, SUN-OFDM, LoRa, FSK, GPS; 4G/5G under development.
- 800-7300 MHz; up to 320 MHz BW; 4096QAM; 2 VSA/VSG sets; 8 RF ports; EVM -50 dB +/-1 dB.

WiFi Production Test Solutions

- Customized WiFi product verification and IC final-test (FT) solutions for WiFi/BT DUT and RFIC/RFEE devices.
- Test items include Tx Power, EVM, Carrier Frequency Offset, Spectrum Mask, Spectrum Flatness, Occupied Bandwidth and Receiver Sensitivity.
- Also supports Sampling Clock Offset, IQ Imbalance and Dynamic EVM measurements.

3GPP Test Solution Coverage

- 4G LTE, LTE-M, NB-IoT, IoT-NTN, 5G NR, NR-NTN and 5G RedCap.
- Portfolio supports SA/NSA, FR1/FR2/FR3 and multi-DUT wireless test use cases.

IEEE Test Solution Coverage

- Wi-Fi, Bluetooth, Sun-OFDM, LoRa, FSK and Zigbee test coverage.
- Wireless applications span WLAN, smart home, IoT and connected-device verification.

Wireless IP / Core Network

- Core-network IP includes 4G EPC and 5GC functions; associated products include Smart EPC and Smart 5GC.
- Base-station protocol/baseband coverage includes 4G eNB stack/PHY and 5G gNB stack/PHY with CU/DU/RU architecture.
- Also includes Wi-Fi 7 PHY and Bluetooth BDR/EDR/BLE PHY capabilities.

SDR Solutions

- Programmable SDR-based wireless platform integrating application SW/API/CLI, embedded/protocol software, RTL/DSP programmable hardware and RF-control firmware.
- Focus on FPGA/DSP design and high-performance reconfigurable computing solutions.

IP / Design Services

- IP services listed in the company profile include SDR, ORAN, SATCOM, MILCOM, FPGA, DSP, ASIC, firmware, software and integration.
- Core competencies include system modeling, IP originality, HW/FW/SW integration, optimization, interoperability verification, reliability testing and commercialization.

Semiconductor / ATE FT

- Wireless production-test and semiconductor final-test applications, including multi-DUT and RFIC/RFEE verification.
- Portfolio combines signaling, WLAN and universal-test platforms for factory production and calibration workflows.