

Pilot Matrix

Advanced Automation for 5G Network Benchmarking and Optimization

Pilot Matrix, the industrial-grade, fully automated solution for mobile network benchmarking, monitoring, and optimization. Featuring high-performance CPU system architecture and a key hardware pluggable design, Pilot Matrix is tailored for scalable 5G network drive testing.

Pilot Matrix supports Qualcomm X55, X65, and X75 chipset-based 5G SA/NSA/RedCap test modules, enabling comprehensive benchmarking across various network technologies, operators, and device brands in a single drive test. Integrated with the cloud-based Fleet Edge platform, it allows engineers to manage, control, and monitor tests remotely in real time.



Pilot Matrix supports simultaneous test ≤ 12 UEs



Pilot Matrix Mini supports simultaneous test ≤ 8 UEs

Highlights

- Unattended benchmarking and monitoring solution
- Ensure 24/7 operational network service and high Quality of Experience (QoE) and Quality of Service (QoS)
- Support Qualcomm X55, X65, and X75 chipset-based 5G SA/NSA/RedCap test modules
- Enable up to 12 UEs testing simultaneously for multiple technologies and services
- Streamline network testing operation with Fleet Edge automated end-to-end remote monitoring solution

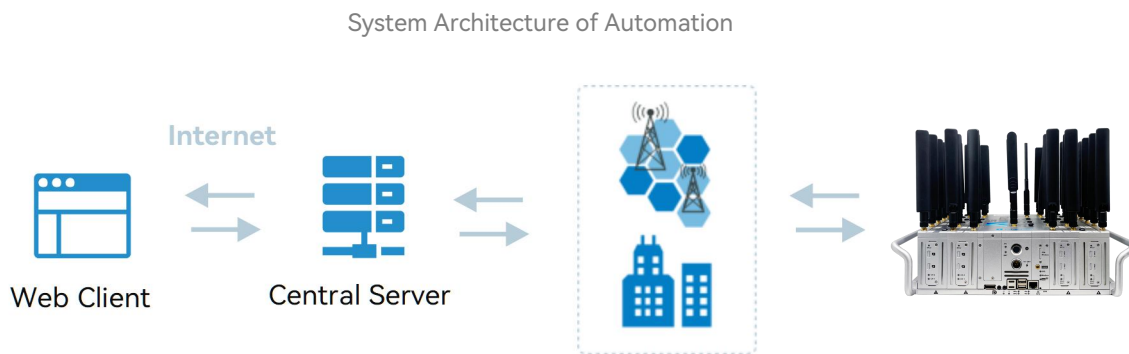
Features & Advantages

Real-time Remote Management

- Web-based remote management allows engineers to manage, control and monitor tests remotely from any locations
- Built-in wireless modem or through Wifi and Ethernet to enable real-time test logs transmission
- Supports remote automatic upgrade of firmware and system version via Fleet Edge

24/7 Unattended Network Measurement and Monitoring

Intelligent hardware and software integration, with multiple protection mechanisms, ensures long-term stable operation. The system automatically recovers from abnormalities, enabling true unattended functionality.



Integrated Modular Design

- Built-in testing modules, supports for the latest Huawei/Samsung/Xiaomi devices, 2G to 5G technologies
- Pluggable design of test boards for quick hardware configuration upgrades
- 12*4 independent external antenna connectors
- Impressive hardware storage capacity and high throughput performance, ideal for 5G testing

Complete UPS Power Supply Solution

- Supports long uninterrupted operation with power grid supply.
- Built-in UPS battery lasts up to 120 minutes.
- Supports portable external lithium battery for over 3 hours, ensuring functionality during testing without external power sources.

Multiple Network Technologies and Services

- Supports PESQ/POLQA MOS voice quality testing
- 2G to 5G voice quality testing, including VOLTE and VoNR
- Data Service testing: FTP, Ping, Video Play, etc.
- Service testing: SMS, Email, etc.