Pilot Performer PFS-M100

Automated 5G Performance Validation Solution for Lab Networks

Pilot Performer is an innovative, scalable 5G gNodeB performance validation testing solution in a laboratory network environment. It offers an end-to-end testing environment that enables multiple terminals to conduct multi-band network combinations and service testing simultaneously.

Pilot Performer allows multiple test cases with diversity and consistency, that support remote control, autonomous testing, and batch processing. It supports flexible configuration of testing devices and environments and collects complete data of wireless network and service.

Highlights

· Supports scalable 5G devices and base stations testing and measurement
· In-built Qualcomm X75/X65/X62/X55 5G modules
· Conducts 10+ service testing simultaneously
· Supports for up to 16 5G testing modules
· Offers customizable solutions for multiple testing scenarios and workflows
· Enable autonomous performance validation of complex scenario testing

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Features & Advantages

Highly Integrated Design

- In-built 16 testing ports support 2G-5G technologies
- High-speed storage design to meet 5G test requirements of hardware mass storage and high throughput performance

Unique Architecture

- Support for up to 16 5G testing modules, supports multi-system cascading to enable more testing terminals
- EMI Shielding degree>70dB
- 5G frequency band: FR1/FR2
- 5G mode: NSA/SA

Enable Multiple Use Cases

- 5G device performance verification, e.g. Network and device capacity measurement, key algorithm testing, basic performance testing
- 5G terminal testing and verification, e.g. Performance benchmarking, performance validation, simultaneous access and retention of multiple terminals
- 5G service capacity verification, e.g. End-to-end network testing, 5G voice testing, wireless network service testing
- 5G multiple scenarios simulating test, e.g. Initial tuning, complex network environment testing, high-capacity/high-traffic cell test, large-scale quality assurance test

Autonomous Testing and Remote Control

- Automation interface using TCP/IP communication protocol
- Provides customizable API and testing scrip to support autonomous testing
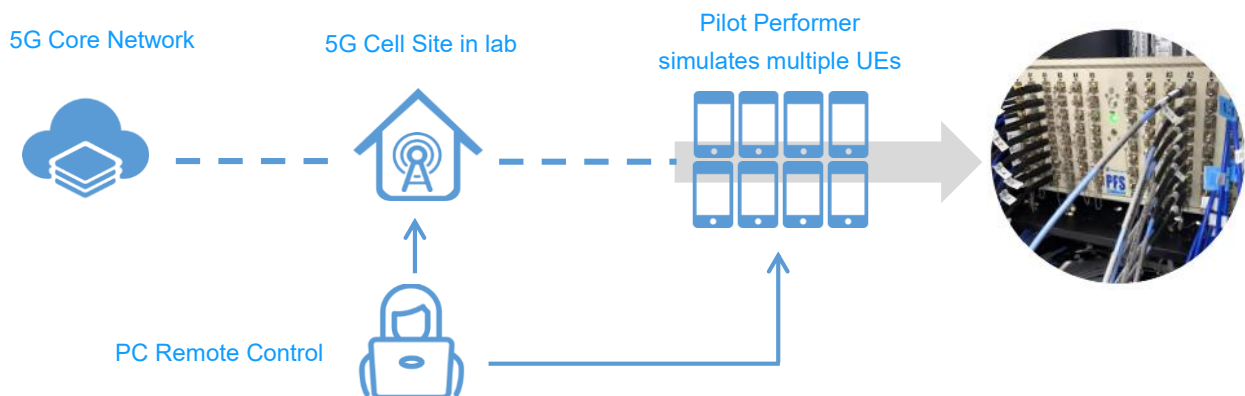- Support for remote testing without signal degradation

5G Core Network   5G Cell Site in lab   Pilot Performer simulates multiple UEs

PC Remote Control

Figure1. Automated remote control laboratory testing solution

Product Specification

Parts	Specification
Power	
Fan	12CM
Processing Board	20+4P
Rated Power	450W
Dimension	550*426*270mm
Hardware System	
CPU	Intel 8th/11th Gen Xeon®/Core™ (Configurable)
RAM	Upto 128G RAM (Configurable)
Hard Disk	128G-2T NVME SSD (Configurable)
5G Modules	5G/4G/3G M.2 modules, compatible to Qualcomm chipset, supports upto 16 testing modules
Operation System	Windows 10
EMI Shielding	Isolation degree>70dB
Splitter	
Size	2-in-1, 4-in-1, 8-in-1(Configurable)
Frequency Range	100~6000MHz
Isolation degree	≥20
Ports	
RF Ports	SMA，nano SIM，8*USB，1*HDMI, 100/1000Mbps

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