

Integris 2000: RRH Installation/Cable Tester with BBU Emulation

Applications

The Integris 2000 is designed to validate RRH/RRU installations before BBU integration. This allows the technicians to have 100% confidence that the remote radio is properly installed and functioning. The presence of the BBU is not necessary to run the Integris 2000.

Remote Radio Installation and RF Testing for PIM and Diversity Imbalance

- Checks fiber cabling by running CPRI patterns up to the RRH/RRU
- Poll the remote radio for its manufacturer and SFP information
- Do a basic RF test for implied PIM and diversity imbalance by controlling the remote radio for various RF tests



Connecting to Remote Radio Head
Directly from Integris 2000 through CPRI



Full BBU Emulation

- No BBU required. The Integris 2000 can emulate the BBU to do the required testing.
- Check for SFP status and cabling integrity
- Reports can be saved and printed to validate contractor work.

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Integris 2000 Tester Solutions

Field installation teams for RRHs have a difficult task in validating the installation for proper cabling and RRH operation. This is because the BBU that connects to the RRH is not present during the RRH installation, making it impossible to truly know if the tower cabling and RRH have been installed properly.

With the Integris 2000, crews can use the single button operation to validate the entire RRH network installation, from the cable connectivity to the RRH operation including basic RF tests. Integris 2000 saves operators money by preventing multiple truck rolls (which can cost thousands of dollars per roll) as well as reducing the time-to-deployment allowing the tower to start producing call volume faster.

Specifications

Integris 2000: Remote Radio Installation Tester

Application	Field Installation Testing to ensure proper operation of remote radios. No baseband unit is required.	
Test Functions	<ul style="list-style-type: none">• Cable tests• RRH polling tests to obtain remote radio information• RRF basic RF tests to check for implied PIM and diversity imbalance	
Cable Test Details	<ul style="list-style-type: none">• Continuity• Latency• Length• Insertion loss• Bit error rate	
Remote Radio Polling Test Details	Information from SFP installed on the remote radio	Remote Radio Information (information will vary by equipment manufacturer)
	<ul style="list-style-type: none">• Manufacturer• Serial number• Temperature• Link speed rating• Media type (single mode or multi-mode)• Manufacturer, model number, and revision	<ul style="list-style-type: none">• Manufacturer• Unit name• Serial number• Firmware revision• Service dates
RRH/RRU Basic RF Testing	<ul style="list-style-type: none">• Check transmit path (downlink) through antenna• Adjust transmit power to high/low• Collect results for implied PIM and diversity imbalance analysis (uplink)	
Current Manufacturer Support	Alcatel Lucent, Ericsson (Others coming soon.)	
Interface Support	Optical (CWDM, DWDM) SFP interface for both multi-mode and single-mode fiber.	
Speed Support	Up to 10 Gbps. (CPRI rates 1 to 8)	
Protocol Support	CPRI Version 5.0 and lower	
Reporting	Reports for all test parameters provided for tests. Options to store on disk, print, or send to cloud.	
Media Interface Kits	A variety of media kits are available for both single and multi-mode fiber.	
Ordering Information	Part number: AA-Integris2000-RL	