Quick Card

T-BERD®/MTS-5800 Network Tester
CPRI Check, RRU Connectivity Testing

This quick card describes how to connect to a CPRI Remote Radio Unit (RRU) and configure a VIAVI T-BERD 5800v2 for basic CPRI Testing, without BBU Emulation (C5RRHA) or RF over CPRI (C5RFOCPRI) options.

Equipment Requirements:
- RRU with power
- T-BERD/MTS-5800v2 equipped with:
  - BERT software release V27.0 or greater
  - CPRI test options:
    - C512GCPRI for CPRI Rate 2 (1228.8M)
    - C524GCPRI for CPRI Rate 3 (2457.6M)
    - C549GCPRI for CPRI Rate 5 (4915.2M)
    - C598GCPRI for CPRI Rate 7 (9830.4M)
- SFP or SFP+ optical transceiver that supports the CPRI rate for the interface under test
- Single mode jumper cable to connect the T-BERD/MTS to the interface under test
- Fiber optic inspection microscope (VIAVI P5000i or FiberChek Probe)
- Fiber optic cleaning supplies

Information Requirements:
- CPRI Line Rate of the RRU

Fiber Inspection Guidelines:
- Use the VIAVI P5000i or FiberChek Probe microscope to inspect both sides of every fiber optic connection being (bulkhead connectors, patch cords, etc.)
- Focus the fiber on the screen. If dirty, clean the connector.
- If it appears clean, run inspection test.
- If it fails, clean the fiber and re-run inspection test.
- Repeat until it passes.
Connect to Fiber Under Test:

1. Insert CPRI optics into the Port 1 slot on the top of the T-BERD/MTS 5800v2.
2. After inspecting the fiber end faces, connect the SFP/SFP+ to the fiber under test using an LC-LC jumper cable.

Launch Test:

1. Press the Power button to turn on the test set.
2. Using the Select Test menu, Quick Launch menu, or Job Manager, launch the CPRI Rates 1-7 CPRI Check Terminate test on port 1.
3. Tap the bottom button to Start a New Configuration.

Configure Test:

1. Tap the Far-end Device drop-down list and select the vendor of your RRU.
2. The Local SFP Verification, Interface, Start-up Sequence, and RTD tests will be selected and greyed-out. If a 2nd column of test selections is displayed (see Figure 5) your T-BERD/MTS is optioned for BBU Emulation and/or RF over CPRI testing. Uncheck all boxes to complete this quick card without using these options.
3. Tap , and to proceed to the Local SFP Verification screen using default settings.
Run Test:
1. Select the CPRI Rate to test.
2. Verify that Signal Present, Sync Acquired, and Frame Sync LEDs are all green.

   - If any of the lights are red in color, the RRU may need to be reset or power may need to be cycled.
   - If the Frame sync is red, the SFP may not be in working order or it may not be fast enough for the Rate of CPRI selected.
3. Press Next to proceed to the Run CPRI Tests screen.
4. Tap to start the test.
5. At the end of the test duration, Pass/Fail status for each scheduled test will be indicated by green checkmark, or red x, . Tests for which no pass/fail threshold was specified will have a blue checkmark, .
6. Tap the symbols to view detailed results. Tap to return to the Tests screen.
7. Press twice to proceed to the Report Info screen.

Save Report:
1. Enter Customer name, Technician ID, and other desired header information for the report.
2. Tap Next to proceed to the Create Report screen.
3. Enter a File Name and tap .
4. After viewing the report, tap .

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