iORF

Intelligent RF Spectrum Analysis over CPRI

Product feature & specs

Intelligent OpticalRF (iORF): Removing the complexity from RF interference & PIM analysis

Quickly and easily identifying fronthaul issues such as RF interference is a big challenge for the entire RF community. And with the ever-increasing bandwidth-hungry applications flooding the wireless network, the need to densify the 4G network by increasing the amount of available capacity is becoming more prevalent. In turn, field technicians are now required to cover more cell sites than ever before. To respond to the challenge of newer, less experienced technicians having to deal with a myriad of technologies is paving the way for simpler and more efficient test processes. EXFO's expertise lies in test solutions that are intelligent, automated and increasingly easy to use—accelerating field tech work and saving on operational expenses (OPEX).

CPRI RF spectrum testing comes with its fair share of challenges:

COUNTLESS TRACES TO ANALYZE

REPEATING THE SAME JOB TWICE TO UNCOVER ROOT CAUSE OF ISSUES

COMPLEX INSTRUMENT TRAINING/SUPPORT

Now you can tackle these challenges head-on!

iORF puts the power back in the field technician's hand. Technicians, at any skill level, will be able to configure, analyze and diagnose RF interference and PIM issues without having to be an RF expert.

What is iORF?

iORF is the **ONLY intelligent RF over CPRI** application on the market today. Using the industry's most powerful real-time high-resolution RF spectrum analysis over CPRI, iORF is a **one-button, fully automated testing** solution that provides complete analysis of the RF spectrum with a pass or fail verdict.

The application will **auto-configure** the CPRI link as soon as a fiber is inserted and with the push of a button, it will **auto-detect** the mapping and the bandwidth of the antenna connected on the CPRI link. It will then run an **automated analysis** on all the antennas and provide a clear indication on what issues are troubling the sector– and whether it is RF interference, internal or external passive intermodulation (PIM).

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Key benefits

- Significantly reduce field technicians troubleshooting time by quickly and accurately identifying RF issues on the CPRI link
- Requires no learning curve: automated test turns any technician into an RF expert
- Reduce unwanted truck rolls by pinpointing whether the problem is self-generated or from an external source

EXFO iORF Specs	
CPRI rate support	CPRI rate options from 2 to 8 (1.2 Gbit/s to 10.1 Gbit/s)
Radio support	Ericsson, Alcatel-Lucent, Nokia, Samsung, Huawei
RF spectrum settings	• Antenna carrier (AxC) selection • Intelligent RF Interference, PIM and know interferer detection • Multi-band or Multi RRH (Remote Radio Head) antenna support • XMU Support
Interface support	Optical (CWDM, DWDM) SFP interface for both multimode and single mode fibers
Remote control and collaboration	Unit can be remotely controlled via a wired or wireless Internet connection.
Test solutions supported	• FTB-1v2 PRO Dual Carrier (FTBx-8870, FTBx-8880) • FTB-870v2, FTB-880v2, FTB-870Q, FTB-880Q, FTB-720Gv2, FTB-730Gv2 and FTB-890NGE • Supported on all the test solutions OpticalRF is available
Ordering information SW option	• iORF • UPG-iORF

FTB 5GPro Kit

Streamline field operations when deploying 5G fronthaul, midhaul and backhaul networks