Remote Fiber Monitoring System (RFMS)

Experience advanced network management with the **Remote Fiber Monitoring System (RFMS)** – the premier solution for 24/7 fiber quality monitoring. Designed to keep NOC (Network Operation Centre) operators and field technicians informed, the RFMS diligently detects fiber-related issues such as cuts, connector removals, and degradation. This cutting-edge integrated system ensures superior supervision and management of optical fiber cables in telecom networks.

The RFMS streamlines every phase, from installation to periodic maintenance, significantly reducing outage times and maintenance costs by enabling prompt fault detection and response.

Explore C-DOT's range of RFMS variants, crafted to meet specific modularity and port configuration needs:
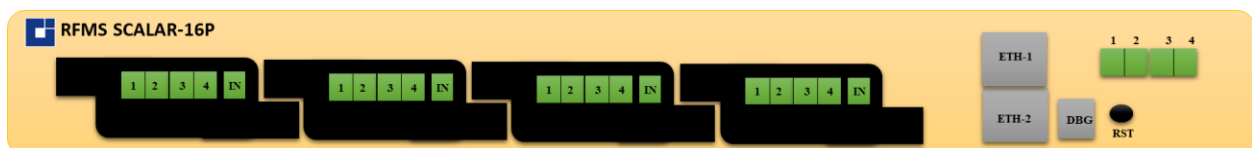
16 ports RFMS solution

Features: -

- **Out of Service/Dark Fiber Testing:** 1625 nm
- **In Service/Live Fiber Monitoring:** Enabled with WDM couplers
- **Optical Ports:** 16 output ports (LC/APC with shutter)
- **Optical Switch:** Electro-mechanical (Lifetime: 3×10^7 cycles)
- **OTDR:** 40dB dynamic range (@20us pulse width)
- **Power Supply:** Dual -48V DC input, supports 230V, 50Hz AC with external adapter
- **Ethernet:** 2 x RJ45 for 10/100/1000 Base-T
- **Storage:** SD Card, expandable up to 32 GB
- **Cooling:** Intelligent Cooling System (5+1 Redundancy)
- **Design:** Compact 1U table-top mechanical box, rack-mountable (standard 19-inch)
- **Environmental Compliance:** QM-333 B2
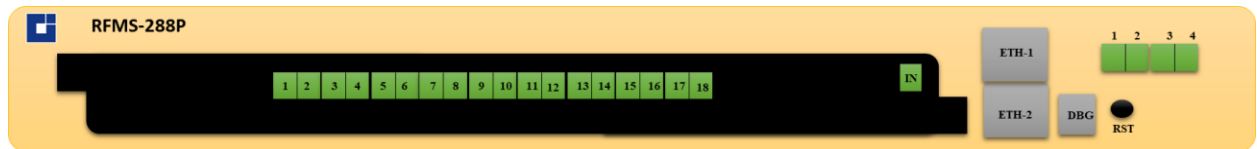- **Power Consumption:** Approximately 100 W

Scalar RFMS solution

Features: -

- **Modular Optical Switch Cassettes:** Hot-swappable (4 ports)

- **Scalability:** 4 to 16 ports (configurations: 4/8/12/16 ports)
- **Out of Service/Dark Fiber Testing:** 1625 nm
- **In Service/Live Fiber Monitoring:** Enabled with WDM couplers
- **Optical Switch:** Electro-mechanical (Lifetime: 3×10^7 cycles)
- **OTDR:** 40dB dynamic range (@20us pulse width)
- **Power Supply:** Dual -48V DC input, supports 230V, 50Hz AC with external adapter
- **Ethernet:** 2 x RJ45 for 10/100/1000 Base-T
- **Storage:** SD Card, expandable up to 32 GB
- **Cooling:** Intelligent Fan-tray (5+1 Redundancy)
- **Additional Features:** Live jack-in and filter change supported
- **Design:** Compact 1U table-top mechanical box, rack-mountable (standard 19-inch)
- **Environmental Compliance:** QM-333 B2
- **Power Consumption:** Approximately 120 W at maximum ports

288 ports RFMS solution

Features: -

- **Scalability:** 16 to 288 ports (in multiples of 16)
- **Optical Switch Cassettes:** Hot-swappable (multiple configurations)
- **Out of Service/Dark Fiber Testing:** 1625 nm
- **In Service/Live Fiber Monitoring:** Enabled with WDM couplers
- **Optical Switch:** MEMS-based (Lifetime: 10^9 cycles)
- **OTDR:** 40dB dynamic range (@20us pulse width)
- **Power Supply:** Dual -48V DC input, supports 230V, 50Hz AC with external adapter
- **Ethernet:** 2 x RJ45 for 10/100/1000 Base-T
- **Storage:** SD Card, expandable up to 32 GB
- **Cooling:** Intelligent Fan-tray (5+1 Redundancy)
- **Additional Features:** Live jack-in and filter change supported
- **Design:** Compact 1U table-top mechanical box, rack-mountable (standard 19-inch)
- **Environmental Compliance:** QM-333 B2
- **Power Consumption:** Approximately 150 W at maximum ports

Centre for Development of Telematics