

## RTU-4000 - 4100

### Remote Fiber Test System (RFTS)

The Remote Fiber Test System (RFTS) comprises the RTU-4000 platform with the RTU-4100 OTDR optical test module. The RFTS monitors optical fiber infrastructures in Core, Metro, Access and FTTx/PON networks, improving workflow and reducing Mean Time to Repair (MTTR). The RFTS can be operated in standalone mode or as part of a centralized Monitoring System.



#### PLATFORM HIGHLIGHTS

#### RTU-4000 Hardware

- Small 1U, 19" rackmount profile and construction
- Field serviceable modular design
- CPU/Dual power supplies
- RTU-4100 optical test module
- Dual cooling fans
- Local alarm relay contacts on rear panel
- Compatible with VeEX's OXA-4000 and OX4000 optical switches
- OXA-4000 RS232 controlled switches
- Scalable from 8 to 128 ports in a single rack mount configuration
- With or without FWDM filtering
- OX4000 Ethernet controlled switches
- Scalable up to 128 ports in a single rack mount configuration
- Cascaded configurations for higher port counts supported
- Connectivity via 10/100 Base-T Management interface
- Supports dual input AC/DC or -48V DC powering options
- Optional SD card up to 256 Gbyte for data storage
- Optional 3G/LTE mobile modem for backup communication

#### RTU-4000 Software

- VeSion® server integration compatibility
- OSS integration using SNMP v
- Secure connection (HTTPS) support
- SMS, email alerting
- Web Browser access for standalone configuration/operation
- Software Programming and Application support
- HTTP+JSON API (language and framework)
- HTTP API configuration/operation using embedded HTTP server

#### KEY OPTICAL PERFORMANCE

#### RTU-4100 Optical Test Module

- Up to 500,000 sampling points with 3 cm resolution
- OTDR test port equipped with live fiber detection for monitoring P2P or PON networks
- Out of service/dark fiber testing at 1310, 1550, 1625, or 1650 nm
- In-service testing using filtered 1625 nm or 1650 nm
- OTDR test ports fitted with fixed or universal connectors
- Built-in launch fiber
- Up to 50 dB dynamic range
- Event dead zone < 1m, Attenuation dead zone < 4m typ.
- Telcordia SR-4731.sor trace format
- V-Scout fiber characterization using multiple acquisitions complete with link map and event tables
- Proactively monitor network fibers in real-time, 24/7
- On demand OTDR testing can be automatically triggered by RF or Ethernet probes within VeSion system
- DOCSIS UCD loss
- OTN/Ethernet link loss event