Building Better Networks with ROGUE® | aeROS® Test Suite

ROGUE OLTS/Certification Modules with TURBO App

Features

- Quad single-mode/multimode, Dual single-mode or Dual multimode
- Hot-swappable into ROGUE cB1 or iB1 units
- Use with aeRos cloud-based workflow management software
- Integrated FOCIS Flex Inspection capability
- Simultaneous, dual-wavelength, bi-directional loss and length testing through Dual Engine technology
- Integrated Source, Power Meter and Visual Fault Locator (VFL)
- Built-in Encircled Flux compliance

Applications

- Tier 1 certification testing of premise/enterprise networks
- Dual-fiber, dual-wavelength, unidirectional or bi-directional OLTS testing
- Multi-fiber testing: loss, length, ORL, certification with one push of a button
- View results and generate reports anywhere, anytime using aeRos
- Integrated multi-wavelength, bi-directional MPO/multi-fiber testing using optional multi-fiber switch

Each ROGUE OLTS test module uses state-of-the-art technology to produce the most accurate results in the shortest amount of time. Modules contain bi-directional test ports as well as an optical power meter port and visual fault locator. All Multimode ports are Encircled Flux compliant as required by ANSI/TIA and ISO/IEC.

By pairing ROGUE modules with smart device apps, AFL's patent pending architecture enables users to control their test hardware directly from any Android smart device. ROGUE users can easily turn the OLTS solution into a full Tier 1 certifier simply by adding our TURBO Certification app.

Test configurations and instructions are pushed from AFL's aeRos cloud solution to the TURBO app to simplify the process for technicians. When the testing is complete, the results automatically and seamlessly synchronize with the cloud for real-time, on-site test data validation. No more waiting for the technician to return with a USB stick and manually transfer the data. With two bi-directional engines, you can even test both fibers in both directions on 2 wavelengths. All with the push of a button on your smart device.

If your network consists of multi-fiber cables and MPO connectors, simply add our Multi-fiber Switch to the ROGUE platform to perform bi-directional, dual-wavelength, multi-fiber testing. AFL's FOCIS Flex wireless inspection probe can also be added for integrated and seamless capture of fiber endface images.

Apps available via Google play store.

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Specifications[a]

OLTS	MULTIMODE	SINGLE-MODE
Emitter Type	LED	Laser
Wavelengths	850 ±30 nm; 1300 ±20 nm	1310, 1550 ±20 nm
Safety Class	Class I FDA 21 CFR 1040.10 and 1040.11, IEC EN60825-1: 2007-03	
Detector Type	InGaAs	InGaAs
Launch Condition	Encircled Flux Compliant[b]	N/A
Length Measurement Range	5 km	200 km (SMF28e)
Power Measurement Range	-3 to +60 dBm	-3 to +60 dBm
Output Power	-24/-23 dBm, 62.5/50 µm	-3 dBm, 9 µm
Stability[c]	±0.1 dB over 1 hour ±0.15 dB over 8 hours	±0.1 dB over 1 hour ±0.15 dB over 8 hours
Wave ID Transmit	Yes	Yes
Tone Generation	330 Hz, 1 kHz, 2 kHz	330 Hz, 1 kHz, 2 kHz
Input Connector	Interchangeable connector adapter (LC standard, SC, ST, FC optional)	

OPTICAL POWER METER (OPM)	
Calibrated Wavelengths	850, 1300, 1310, 1490, 1550, 1625, 1650 nm
Detector Type	InGaAs PIN, 2 mm diameter
Measurement Range	+3 to -70 dBm
Wave ID	Automatically synchronizes and measures 1, 2 or 3 λ Wave ID combinations
Range	+3 to -40 dBm @ 850 nm; +3 to -50 dBm @ 1300, 1310, 1550 nm
Tone Detect	Auto-detects 270, 330 Hz; 1, 2 kHz tones;
Accuracy	±5% @-10 dBm
Linearity	±0.1 dB (-3 to -40 dBm); ±0.25 dB (-40 to -50 dBm)
Measurement Units	Power in dBm, nW, µW, mW; Loss in dB; 0.01 dB resolution

VISUAL FAULT LOCATOR (VFL)	
Emitter Type	Visible red laser, 650 ±20 nm
Safety Class	Class II FDA 21 CFR 1040.10 and 1040.11, IEC EN60825-1: 2007-03
Output Power (nominal)	0.8 mW into single-mode fiber
Modes	CW and 2 Hz flashing

GENERAL	
Size	135 x 122 x 43 mm (5.4 x 4.8 x 1.7 in)
Weight	0.4 kg (0.9 lb)
Operating Temperature	-18°C to +50°C, 0 to 95% RH (non-condensing)
Storage Temperature	-30°C, to +60°C, 0 to 95% RH (non-condensing)
CE Safety & EMI/RFI	EN61010-1; EMI/RFI: EN55011, EN61326-1, GR-196-CORE 4.5.1
RoHS	2011/65/EU

Notes:
a. All specifications valid at 23°C ±2°C (73.4°F ±3.6°F) unless otherwise specified.
b. TIA-526-14-B,ISO/IEC 14763-3 and IEC 61280-4-1.
c. After 15 minutes warm-up.

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Ordering Information

ROGUE OLTS Modules

ROGUE OLTS modules must be installed in either a ROGUE cB1 or ROGUE iB1 unit. Each module comes with a ROGUE OLTS Basic license allowing the OLTS module to be used in a ROGUE cB1 or iB1 and enabling basic aeRos OLTS functionality. Each module includes SC connector adapter for the OLTS/OLS ports and universal 2.5 mm adapters for the VFL and OPM (if installed) ports.

DESCRIPTION	AFL NO.
Module – Quad MM 850/1300 nm, SM 1310/1550 nm	RG-1100-Q01
Module – MM 850/1300 nm, Dual Engine	RG-1100-M01-D
Module – SM 1310/1550 nm, Dual Engine	RG-1100-S01-D

ROGUE Certification Kits

Each ROGUE Certification kit includes two (2) of each: ROGUE cB1 or iB1 unit, battery, adjustable carry strap, power supply, carry case, kickstand. Each kit also includes kit-specific ROGUE Modules and Turbo Certification license(s) (see table below). All kits include (1) One-Click Cleaner SC/2.5 mm and switchable test port adapters and test accessories (see table below).

ROGUE CERTIFICATION KITS	CONTAINS (e.a.)												AFL NO.
	ROGUE BASE		ROGUE MODULES			LICENSE	REFERENCE TEST CORDS		MATING ADAPTERS	TEST PORT ADAPTERS			
			QUAD SM/MM	DUAL ENGINE						OLS	OPM		
	cB1	iB1		SM	MM		SM	50 µM MM	SC	SC	SC	LC	
Quad SM/MM	2		2			2	2	2	2	2	2	2	RGK-CERT01
Dual Engine SM and MM	2			2	2	4	4	4	4	8	4	4	RGK-CERT02
Dual Engine SM	2		2			2	4		2	4	2	2	RGK-CERT03
Dual Engine MM	2				2	2		4	2	2	2	2	RGK-CERT04
Quad SM/MM		2	2			2	2	2	2	2	2	2	RGK-CERT01B1
Dual Engine SM and MM		2		2	2	4	4	4	4	8	4	4	RGK-CERT02B1
Dual Engine SM		2	2			2	4		2	4	2	2	RGK-CERT03B1
Dual Engine MM		2			2	2		4	2	2	2	2	RGK-CERT04B1

ROGUE OLTS Mobile Apps

Mobile Apps to configure, control and access results from your Android device are available for free download from Google Play.

International Sales and Service Contact Information

Available at www.AFLglobal.com/Test/Contacts

www.AFLglobal.com or (800) 321-5298, (603) 528-7780