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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7283J 1383/1625nm OTDR

Yokogawa AQ7283J OTDR Measurement Unit (AQ7280 Series) The Yokogawa AQ7283J is a plug-in OTDR measurement unit for the modular AQ7280 platform used in fiber manufacturing, R&D, and high-performance field testing. Hot-swappable units enable wavelength and dynamic-range configuration matched to metro, core, or specialty test needs. Optical fiber and cable manufacturing QA; WDM and specialty-wavelength evaluation; metro and long-haul fiber commissioning; high-dynamic-range fault location on long spans. The Yokogawa AQ7283J is a plug-in OTDR measurement unit for the modular AQ7280 platform used in fiber manufacturing, R&D, and high-performance field testing. Hot-swappable units enable wavelength and dynamic-range configuration matched to metro, core, or specialty test needs. Optical fiber and cable manufacturing QA; WDM and specialty-wavelength evaluation; metro and long-haul fiber commissioning; high-dynamic-range fault location on long spans.



MODEL

**Yokogawa
AQ7283J**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7283J

LISTING

<https://aumictechlabs.com/products/aq7283j-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7283J is a modular Optical Time Domain Reflectometer (OTDR) engineered for comprehensive single-mode fiber characterization across metro, access, and FTTH networks. It delivers four-wavelength operation - 1310 nm, 1383 nm, 1550 nm, and 1625 nm - with specialized capability to measure water-peak absorption in low-OH fibers and perform live-line testing

without disrupting active communications traffic.

Technical Specifications

Wavelengths: 1310 $\pm$ 25 nm, 1383 $\pm$ 2 nm, 1550 $\pm$ 25 nm, 1625 $\pm$ 25 nm

Applicable Fiber: Single-Mode (SM) per ITU-T G.652

Distance Range: 0.2 km through 512 km in 14 selectable increments

Pulse Width: 3 ns to 20 μ s across 14 settings

Event Dead Zone: 0.6 m

Attenuation Dead Zone: 3.5 m (1383 nm), 4 m (1550 nm and 1625 nm)

Dynamic Range: 42 dB (1310 nm), 39 dB (1383 nm), 40 dB (1550 nm and 1625 nm)

Laser Classification: Class 1M (1383/1550/1625 nm); Class 3R (1310 nm)

Display: 8.4-inch color TFT LCD, 800 $\times$ 600 pixels resolution

Storage: $\geq$ 1000 waveforms internally; USB and SD card external storage

Key Features

- 1383 nm wavelength for water-peak measurement and CWDM fiber qualification
- 1625 nm filtered port enables live-line measurement without signal disruption
- Smart Mapper automatic measurement with PASS/FAIL judgment
- Multi-trace comparison and macro-bend detection via wavelength waveform analysis
- Multi-touch capacitive touchscreen with hard-key button operation
- Fault locator with one-tap PDF report generation
- Internal post-processing software for curve analysis and documentation

Typical Applications

- Single-mode fiber installation and maintenance verification
- Low-OH fiber characterization in CWDM network feasibility studies
- Live-network OTDR measurement without service interruption
- Optical fiber manufacturing and cabling process inspection
- Macro-bending detection through comparative wavelength analysis

Compatibility & Integration

Interfaces include one Unit port, one Module port, three USB ports (Type A $\times$ 2, Type B mini $\times$ 1), optional Ethernet 10/100BASE-T, and SD card slot.

Remote control via USB or TCP/IP. Supported file formats: SOR, CSV, SET, BMP, JPG, CFG, and PDF.

Features & description

From manufacturer datasheet

Features

- Wavelengths: 1310/1383/1550/1625 nm

AQ7283J Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7283J
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit
Series	AQ7280 Modular OTDR
Platform	AQ7280 mainframe (separate)
Wavelengths	1310/1383/1550/1625 nm
Number of Wavelengths	4
OTDR Ports	1
Dynamic Range Typical	42/39/40/40 dB
Event Dead Zone Typical	0.5 m (0.6 m on some models)
Attenuation Dead Zone Typical	3.5/4 m (wavelength dependent)
Distance Range	0.2 to 512 km (model dependent)
Pulse Width	3 ns to 20000 ns
Sampling Resolution Min	2 cm
Sampling Points Max	256000
Distance Measurement Accuracy	+/- (0.75 m + distance x 2×10^{-5} + sampling resolution)
Loss Measurement Accuracy	+/- 0.03 dB/dB typical
Applicable Fiber	SM (ITU-T G.652)
Optical Connector	Universal adapter SC/FC/LC (suffix dependent)
Display	via AQ7280 mainframe 8.4-inch LCD
Alias	AQ7283J
PON Dead Zone	per AQ7280 family
Group Refractive Index	1.30000 to 1.79999
Laser Class	Class 1M (IEC 60825-1) Notes Specs from Yokogawa AQ7280/AQ7283H/AQ7286 series datasheets. AQ7283J is an OTDR unit module—requires AQ7280 mainframe. Confirm universal adapter suffix (-USC, -UFC, -ULC, -ASC).

PARAMETER	VALUE
Attenuation	Dead Zone Typical: 3.5/4 m (wavelength dependent)

AQ7283J Specifications

PARAMETER	VALUE
Yokogawa AQ7283J OTDR Measurement Unit (AQ7280 Series)	Overview
Key Features	- Wavelengths: 1310/1383/1550/1625 nm
Technical Specifications	Model: AQ7283J

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

performance field testing. Hot-swappable units enable wavelength and dynamic-range configuration matched to metro, core, or specialty test needs.

Applications

Optical fiber and cable manufacturing QA; WDM and specialty-wavelength evaluation; metro and long-haul fiber commissioning; high-dynamic-range fault location on long spans.

Key Features

- Wavelengths: 1310/1383/1550/1625 nm
- Dynamic range 42/39/40/40 dB dB typical
- Event dead zone 0.5 to 0.6 m typical
- Sampling resolution min. 2 cm; up to 256000 points
- Modular AQ7280 mainframe compatibility
- Pass/fail and multi-trace analysis functions

Technical Specifications

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Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit

Specifications

PARAMETER	VALUE
Series	AQ7280 Modular OTDR
Platform	AQ7280 mainframe (separate)
Wavelengths	1310/1383/1550/1625 nm

Specifications

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PARAMETER	VALUE
Attenuation Dead Zone Typical	3.5/4 m (wavelength dependent)
Distance Range	0.2 to 512 km (model dependent)

Specifications

PARAMETER	VALUE
Pulse Width	3 ns to 20000 ns
Sampling Resolution Min	2 cm
Sampling Points Max	256000

Specifications

PARAMETER	VALUE
Distance Measurement Accuracy	+/- (0.75 m + distance x 2 x 10 ⁻⁵ + sampling resolution)
Loss Measurement Accuracy	+/- 0.03 dB/dB typical
Applicable Fiber	SM (ITU-T G.652)

Specifications

PARAMETER	VALUE
Optical Connector	Universal adapter SC/FC/LC (suffix dependent)
Display	via AQ7280 mainframe 8.4-inch LCD
Alias	AQ7283J

Specifications

PARAMETER	VALUE
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Notes

Specs from Yokogawa AQ7280/AQ7283H/AQ7286 series datasheets. AQ7283J is an OTDR unit module—requires AQ7280 mainframe. Confirm universal adapter suffix (-USC, -UFC, -ULC, -ASC).

Laser Safety

Class 1M (IEC 60825-1)

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

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NIST-traceable calibration · SAM registered ·
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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.