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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7283A 1310/1550nm OTDR

Yokogawa AQ7283A OTDR Measurement Unit (AQ7280 Series) The Yokogawa AQ7283A isaplug-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 AQ7283A isaplug-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
AQ7283A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7283A

LISTING

<https://aumictechlabs.com/products/aq7283a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7283A is a dual-wavelength Optical Time Domain Reflectometer engineered for fault location, loss analysis, and fiber length measurement in single-mode optical networks. Operating at 1310 nm and 1550 nm, this modular OTDR delivers dynamic range of 42 dB and 40 dB respectively, with measurement capability to 512 km. The instrument features an 8.4-inch

color TFT display, multi-touch capacitive interface, and selectable pulse widths from 3 ns to 10,000 ns, enabling precise characterization of installed fiber infrastructure. Field-deployable with up to 15 hours battery life and internal/external data storage via USB and SD card, the AQ7283A integrates into the AQ7280 platform for customizable test configurations.

Technical Specifications
Model: AQ7283A (AQ7280 Series) Operating Wavelengths: 1310 nm and 1550 nm Applicable Fiber: Single Mode (SM) ITU TG652 Maximum Distance Range: 512 km Dynamic Range: 42 dB (1310 nm); 40 dB (1550 nm) Event Dead Zone: 0.6 m Pulse Width: Selectable from 3 ns to 10,000 ns Sampling Resolution: 2 cm minimum Measurement Accuracy (Wavelength): ± 25 nm (1310 nm and 1550 nm) Display: 8.4-inch color TFT LCD, 800 $\times$ 600 resolution User Interface: Multi-touch capacitive touchscreen with hard-key buttons Data Storage: Internal memory with USB and SD card export Battery Life: Up to 15 hours (Telcordia standard conditions) System Weight: Approximately 15.9 kg Dimensions: 24 $\times$ 16 $\times$ 10 inches

Key Features Dual-wavelength operation for comprehensive fiber characterization Precise fault identification and location along fiber spans Accurate fiber length measurement and signal loss analysis Selectable pulse widths optimize resolution across distance ranges 2 cm sampling resolution enables detection of small-scale events

Typical Applications Long-distance networks exceeding 70 km with splitter configurations Telecommunications infrastructure testing and maintenance Network installation validation and fault diagnostics Field deployment requiring extended battery operation

Compatibility & Integration The AQ7283A operates as a module within the AQ7280 platform, supporting optional modules including optical power meters, visual light sources, and fiber inspection probes. Note that OTDR and OPM functions cannot operate simultaneously.

AQ7283A Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7283A
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit
Series	AQ7280 Modular OTDR
Platform	AQ7280 mainframe (separate)
Wavelengths	1310/1550 nm
Number of Wavelengths	2
OTDR Ports	1
Dynamic Range Typical	42/40 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	AQ7283A
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. AQ7283A 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)

AQ7283A Specifications

PARAMETER	VALUE
Yokogawa AQ7283A OTDR Measurement Unit (AQ7280 Series)	Overview
Key Features	- Wavelengths: 1310/1550 nm
Technical Specifications	Model: AQ7283A

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: 1310/1550 nm
- Dynamic range 42/40 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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Model	AQ7283A
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit

Specifications

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

Specifications

PARAMETER	VALUE
Number of Wavelengths	2
OTDR Ports	1
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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	AQ7283A

Specifications

PARAMETER	VALUE
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Notes

Specs from Yokogawa AQ7280/AQ7283H/AQ7286 series datasheets. AQ7283A 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 ·
30-day returns
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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.