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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7286A 1310/1550nm OTDR

Yokogawa AQ7286A OTDR Measurement Unit (AQ7280 Series) The Yokogawa AQ7286A 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 AQ7286A 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
AQ7286A**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7286A

LISTING

<https://aumictechlabs.com/products/aq7286a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7286A is a dual-wavelength Optical Time Domain Reflectometer (OTDR) for single-mode fiber characterization across 1310 nm and 1550 nm. Operating from 0.2 km to 512 km with dynamic ranges of 42 dB (1310 nm) and 40 dB (1550 nm), it delivers loss measurement accuracy of ± 0.025 dB and distance accuracy of $\pm (0.75 \text{ m} + \text{measurement distance} \times 2 \times 10^{-5} + 2$

cm). Measurement times range from 30 seconds to 3 minutes with pulse widths selectable from 3 ns to 20000 ns. The instrument features an 8.4-inch color TFT LCD touchscreen, 15-hour Li-ion battery runtime, and stores over 1000 waveforms internally with external data export via USB and SD card.

Technical Specifications

Optical Performance Wavelengths: 1310 nm / 1550 nm Dynamic range: 42 dB (1310 nm), 40 dB (1550 nm) Event dead zone: 0.6 m Attenuation dead zone: 3.5 m / 4 m Distance range: 0.2 km to 512 km Distance accuracy: $\pm(0.75 \text{ m} + \text{measurement distance} \times 2 \times 10^{-5} + 2 \text{ cm})$ Pulse width: 3 ns to 20000 ns Loss measurement accuracy: $\pm 0.025 \text{ dB}$ (typical) Loss measurement repeatability: $\pm 0.015 \text{ dB}$ (typical) Measurement time: 30 seconds to 3 minutes

Physical & Display Dimensions: 211 mm (W) $\times$ 110 mm (H) $\times$ 32 mm (D) Weight: 420–460 g Display: 8.4-inch color TFT LCD, 800 $\times$ 600 resolution, multi-touch capacitive

Power & Battery AC input: 100–240 VAC, 50–60 Hz Battery: Li-ion, 15-hour working time, 6-hour charge time

Connectivity & Storage Internal storage: >1000 waveforms External: USB 2.0 (Type-A $\times$ 2, Mini-B $\times$ 1), Ethernet, SD card

Optical connectors: SC, FC, LC with universal adapters available

Key Features Modular AQ7280 series platform accommodates OTDR, optical power meter, and visible light source modules Wavelength tolerance to $\pm 10 \text{ nm}$ (IEC 60793-1-40 compliant) available as option Dual operation modes via touchscreen and hard-key buttons Class 1M or 1 laser safety classification

Environmental Operating: -10°C to 50°C , 0–90% RH Storage: -20°C to 60°C

Typical Applications Fiber optic cable verification, link loss characterization, fault location, and span attenuation analysis in R&D and field deployment environments.

AQ7286A Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7286A
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	AQ7286A
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. AQ7286A 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)

AQ7286A Specifications

PARAMETER	VALUE
Yokogawa AQ7286A OTDR Measurement Unit (AQ7280 Series)	Overview
Key Features	- Wavelengths: 1310/1550 nm
Technical Specifications	Model: AQ7286A

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	AQ7286A
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit

Specifications

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

Specifications

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Distance Range	0.2 to 512 km (model dependent)

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

Specifications

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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

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Notes

Specs from Yokogawa AQ7280/AQ7283H/AQ7286 series datasheets. AQ7286A 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.