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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7286H 1310/1625nm OTDR

Yokogawa AQ7286H OTDR Measurement Unit (AQ7280 Series) The Yokogawa AQ7286H 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 AQ7286H 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
AQ7286H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7286H

LISTING

<https://aumictechlabs.com/products/aq7286h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7286H is a single-mode fiber OTDR engineered for precise fault location, attenuation measurement, and loss characterization across extended fiber spans. Operating at 1310 nm, 1550 nm, and 1625 nm, this instrument delivers dynamic ranges of 42 dB, 40 dB, and 39 dB respectively, with measurement cycles between 30 seconds and 3 minutes. Distance accuracy

of $\pm(0.75 \text{ m} + \text{measurement distance} \times 2 \times 10^{-5} + 2 \text{ cm})$ and loss measurement repeatability of $\pm 0.015 \text{ dB}$ (typical) support demanding field and laboratory applications.

Technical Specifications

Optical Performance Wavelengths: 1310 nm, 1550 nm, 1625 nm Dynamic Range: 42 dB (1310 nm), 40 dB (1550 nm), 39 dB (1625 nm) Distance Range: 0.2 km to 512 km Event Dead Zone: 0.6 m Attenuation Dead Zone: 3.5 m (1310 nm), 4 m (1550 nm/1625 nm) Pulse Width: 3 ns to 20,000 ns Distance Accuracy: $\pm(0.75 \text{ m} + \text{measurement distance} \times 2 \times 10^{-5} + 2 \text{ cm})$ Loss Measurement Accuracy: $\pm 0.025 \text{ dB/dB}$ (typical) Loss Measurement Repeatability: $\pm 0.015 \text{ dB}$ (typical) Wavelength Tolerance: $\pm 15 \text{ nm}$ standard, $\pm 10 \text{ nm}$ optional Measurement Time: 30 seconds to 3 minutes Display & Control 8.4-inch color TFT LCD, 800×600 pixels, multi-touch capacitive interface Power & Battery Li-ion battery: up to 15 hours operation, 6-hour charge cycle AC input: 100–240 VAC, 50–60 Hz Storage & Connectivity Internal: >1000 waveforms External: USB 2.0, SD card, Ethernet Optical connectors: SC, FC, LC Environmental & Physical Operating: -10°C to 50°C , 0–90% RH (non-condensing) Storage: -20°C to 60°C Dimensions: 211 mm (W) $\times$ 110 mm (H) $\times$ 32 mm (D) Weight: 420–460 g Laser Safety: Class 1M or Class 1

Key Features Tri-wavelength architecture for ITU-T G.654 and G.657 standard compliance Extended dynamic range enables testing from short patch cords to long-haul routes Field-grade battery endurance supports 15-hour field campaigns Multi-connector support (SC/FC/LC) accommodates diverse network topologies

Typical Applications Single-mode fiber characterization and acceptance testing In-service fault detection and event location Loss budget verification on installed links Splice and connector loss assessment Network maintenance and troubleshooting

Compatibility & Integration USB 2.0 and Ethernet interfaces enable data transfer and remote integration. SD card and internal storage support waveform archiving and offline analysis.

Features & description

From manufacturer datasheet

Features

- Wavelengths: 1310/1550/1625 nm

AQ7286H Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7286H
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit
Series	AQ7280 Modular OTDR
Platform	AQ7280 mainframe (separate)
Wavelengths	1310/1550/1625 nm
Number of Wavelengths	3
OTDR Ports	1
Dynamic Range Typical	42/40/39 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	AQ7286H
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. AQ7286H 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)

AQ7286H Specifications

PARAMETER	VALUE
Yokogawa AQ7286H OTDR Measurement Unit (AQ7280 Series)	Overview
Key Features	- Wavelengths: 1310/1550/1625 nm
Technical Specifications	Model: AQ7286H

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: 1310/1550/1625 nm
- Dynamic range 42/40/39 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	AQ7286H
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit

Specifications

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Platform	AQ7280 mainframe (separate)
Wavelengths	1310/1550/1625 nm

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Specifications

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Notes

Specs from Yokogawa AQ7280/AQ7283H/AQ7286 series datasheets. AQ7286H 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.