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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7283H 1625nm OTDR

Yokogawa AQ7283H OTDR Measurement Unit (AQ7280 Series) The Yokogawa AQ7283H 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 AQ7283H 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
AQ7283H**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7283H

LISTING

<https://aumictechlabs.com/products/aq7283h-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7283H is a modular Optical Time Domain Reflectometer (OTDR) engineered for single-mode fiber characterization and network diagnostics across three wavelengths: 1310 nm ± 25 nm, 1550 nm ± 25 nm, and 1625 nm ± 25 nm. The unit delivers dynamic range performance of 42 dB at 1310 nm, 40 dB at 1550 nm, and 39 dB at 1625 nm, with event dead zone of 0.6 m and

attenuation dead zones ranging from 3.5 m to 4 m depending on wavelength. Measurement capabilities extend to 512 km with 2 cm minimum sampling resolution. The 8.4-inch color TFT LCD display (800 × 600 resolution) with multi-touch interface enables dual-mode operation via touchscreen and hard-key controls. Battery runtime reaches 15 hours under Telcordia standards or 10 hours during continuous measurement.

Technical Specifications

Wavelengths: 1310 nm ±25 nm, 1550 nm ±25 nm, 1625 nm ±25 nm

Dynamic Range (typical): 1310 nm = 42 dB | 1550 nm = 40 dB | 1625 nm = 39 dB

Event Dead Zone: 0.6 m

Attenuation Dead Zone: 3.5 m (1310 nm), 4 m (1550 nm), 4 m (1625 nm)

Maximum Distance Range: 512 km

Minimum Sampling Resolution: 2 cm

Display: 8.4-inch color TFT LCD, 800 × 600, multi-touch capacitive

Startup Time: <10 seconds

Battery Life: Up to 15 hours (Telcordia standard) or 10 hours (continuous measurement)

Measurement Update Rate: Up to 5 times per second

Connectivity: USB (2 × Type-A, 1 × Mini-B), SD card slot, Ethernet (optional), wireless

Key Features

- Fault location with 0.6 m event resolution
- Fiber length, attenuation, and splice loss measurement
- Smart Mapper Function with automatic PASS/FAIL judgment
- Macro bend detection for CWDM transmission validation
- PON characterization supporting splitter configurations up to 1×128
- Live-line maintenance capability via dedicated 1625 nm or 1650 nm port with integrated cut filter
- Schedule Measurement function for periodic fiber core monitoring
- Multi-tasking architecture enabling simultaneous OTDR and power-level operations

Typical Applications

- Single-mode fiber network installation and commissioning
- Fault isolation and span characterization in operational systems
- PON deployment validation and troubleshooting
- CWDM system path verification
- Long-haul terrestrial and submarine fiber diagnostics

Compatibility & Integration

Data storage via internal memory, USB, and SD card. Optional Ethernet and wireless connectivity support field-based data acquisition and remote monitoring workflows.

Features & description

From manufacturer datasheet

Features

- Wavelengths: 1310/1550/1625 nm

AQ7283H Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7283H
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	AQ7283H
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. AQ7283H 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)

AQ7283H Specifications

PARAMETER	VALUE
Yokogawa AQ7283H OTDR Measurement Unit (AQ7280 Series)	Overview
Key Features	- Wavelengths: 1310/1550/1625 nm
Technical Specifications	Model: AQ7283H

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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PARAMETER	VALUE
Model	AQ7283H
Manufacturer	Yokogawa
Instrument Type	OTDR Measurement Unit

Specifications

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

Specifications

PARAMETER	VALUE
Number of Wavelengths	3
OTDR Ports	1
Dynamic Range Typical	42/40/39 dB

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Event Dead Zone Typical	0.5 m (0.6 m on some models)

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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	AQ7283H

Specifications

PARAMETER	VALUE
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Notes

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