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Data Sheet

August 13, 2026

YOKOGAWA

Yokogawa AQ7286J 1310/1383/1550/1625nm OTDR

Yokogawa AQ7286J OTDR Measurement Unit (1310/1383/1550/1625 nm) The Yokogawa AQ7286J is a four-wavelength plug-in OTDR unit for the modular AQ7280 platform, aimed at optical-fiber and cable manufacturing plus WDM evaluation. It emits 1310, 1383 (OH water-peak), 1550, and 1625 nm with typical dynamic range 42/39/40/39 dB and guaranteed center-wavelength tolerance of ± 15 nm at all wavelengths (optional ± 10 nm per IEC 60793-1-40). Optical fiber and cable manufacturing inspection including water-peak (1383 nm) loss; WDM cable evaluation at 1310/1550/1625 nm plus 1383 nm; metro/core commissioning on SMF (ITU-T G.652); multi-wavelength fault location with AQ7280 pass/fail and multi-trace analysis. The Yokogawa AQ7286J is a four-wavelength plug-in OTDR unit for the modular AQ7280 platform, aimed at optical-fiber and cable manufacturing plus WDM evaluation. It emits 1310, 1383 (OH water-peak), 1550, and 1625 nm with typical dynamic range 42/39/40/39 dB and guaranteed center-wavelength tolerance of ± 15 nm at all wavelengths (optional ± 10 nm per IEC 60793-1-40). Optical fiber and cable manufacturing inspection including water-peak (1383 nm) loss; WDM cable evaluation at 1310/1550/1625 nm plus 1383 nm; metro/core commissioning on SMF (ITU-T G.652); multi-wavelength fault location with AQ7280 pass/fail and multi-trace analysis.



MODEL

**Yokogawa
AQ7286J**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

AQ7286J

LISTING

<https://aumictechlabs.com/products/aq7286j-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Yokogawa AQ7286J is a four-wavelength Optical Time Domain Reflectometer (OTDR) engineered for fiber optic network construction, troubleshooting, and quality control across single-mode installations. Operating at 1310 nm, 1383 nm, 1550 nm, and 1625 nm in a single port, it delivers dynamic range performance of 42 dB (1310 nm), 40 dB (1550 nm), and 39 dB (1383/1625 nm typ.). The instrument achieves event dead zone of 0.6 m and attenuation dead zones ranging from 3.5 m to 4 m depending on wavelength. Trace acquisition occurs in 30 seconds to 3 minutes, with results stored internally (>1000 waveforms) or exported via USB and SD card. The 8.4-inch color TFT LCD (800 × 600 resolution) features multi-touch capacitive control for intuitive operation. Wavelength tolerance meets IEC 60793-1-40 at ±15 nm standard or ±10 nm optional. The modular architecture supports detachable optical power meter (OPM) modules and visible light source (VLS) modules from the AQ7280 series. AC power input spans 100 to 240 VAC, 50 to 60 Hz, with Li-ion battery backup. Compact dimensions of 211 × 110 × 32 mm (W x H x D) and 420–460 g mass enable field deployment across access networks, core infrastructure, and FTTH installations. Compatible with AQ7933 OTDR Emulation Software for trace re-analysis and reporting workflows.

Technical Specifications

Wavelengths:	1310 nm, 1383 nm, 1550 nm, 1625 nm (four-wavelength single port)
Dynamic Range (typ.):	42 dB @ 1310 nm 39 dB @ 1383 nm 40 dB @ 1550 nm 39 dB @ 1625 nm
Event Dead Zone:	0.6 m
Attenuation Dead Zone:	3.5 m (1310 nm) 4 m (1383/1550/1625 nm)
Measurement Time:	30 seconds to 3 minutes
Wavelength Tolerance:	±15 nm (standard) ±10 nm (optional, IEC 60793-1-40)
Display:	8.4-inch color TFT LCD, 800 × 600, multi-touch capacitive
Data Storage:	Internal (>1000 waveforms) USB 2.0 (Type-A x2, Mini-B x1) SD card
Power Input:	100–240 VAC, 50–60 Hz Li-ion battery
Dimensions:	211 × 110 × 32 mm (W x H x D)
Weight:	420–460 g
Fiber Type:	Single-mode

Key Features

- Four wavelengths in single port eliminates manual wavelength switching
- 1383 nm support enables water peak attenuation measurements for cable inspection
- Modular design integrates OPM and VLS modules (AQ7280 series)
- Compact, portable form factor for field and lab use
- Multi-touch interface reduces operational complexity

Typical Applications

- Network construction and installation verification
- Fault location and troubleshooting (access to core)
- Manufacturing quality control and cable acceptance testing
- R&D fiber characterization
- Structured cable system testing
- FTTH and core network maintenance

Compatibility & Integration

AQ7280 series modules: optical power meters (AQ2780, AQ2781, AQ2780V, AQ2781V) and visible light source modules AQ7933 OTDR Emulation Software for offline trace processing and reporting

Features & description

From manufacturer datasheet

Features

- Four wavelengths on one OTDR port: 1310/1383/1550/1625 nm
- Manufacturing-class center-wavelength guarantee (+/-15 nm all bands; optional +/-10 nm)
- AQ7286-series unit with cooling fan; requires AQ7280 mainframe
- Power Checker and Stabilized Light Source options are not supported on AQ7286J
- Event dead zone 0.5 m class; 2 cm minimum sampling; 256000 points
- Universal optical adapters SC/FC/LC (suffix dependent)

AQ7286J Characteristics / Specifications

PARAMETER	VALUE
Model	AQ7286J
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	42/39/40/39 dB (1310/1383/1550/1625 nm)
Dynamic Range Guaranteed Class	40/37/38/37 dB (Japanese AQ7286 listing)
Center Wavelength Tolerance	+/-15 nm all wavelengths (manufacturing); optional +/-10 nm
Event Dead Zone Typical	0.5 to 0.6 m (3 ns pulse, RL >=55 dB)
Attenuation Dead Zone Typical	3.5/4 m class (wavelength dependent)
Distance Range	0.2, 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512 km
Pulse Width	3, 10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000, 5000, 10000, 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 -USC, -UFC, -ULC, -ASC)
Display	via AQ7280 mainframe 8.4-inch LCD
Group Refractive Index	1.30000 to 1.79999
Laser Class	Class 1M / Class 1 class (1383/1550/1625 nm); confirm 1310 nm class on unit

PARAMETER	VALUE
Power Checker Option	not supported (AQ7286A/H/J)
Stabilized Light Source Option	not supported (AQ7286A/H/J)
Cooling	air-cooled fan on AQ7286-series OTDR units
Alias	AQ7286J Notes Specs from Yokogawa AQ7280/AQ7286 series datasheet and AQ7286J product announcement. AQ7286J is an OTDR plug-in—requires AQ7280 mainframe. Typical DR 42/39/40/39 dB (1625 nm 39 dB, unlike AQ7283J 40 dB at 1625 nm). Confirm adapter suffix and wavelength-tolerance option on the unit.
Four wavelengths on one OTDR port	1310/1383/1550/1625 nm
Attenuation	Dead Zone Typical: 3.5/4 m class (wavelength dependent)

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.

Specifications	
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PARAMETER	VALUE
Model	AQ7286J
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	42/39/40/39 dB (1310/1383/1550/1625 nm)
Dynamic Range Guaranteed Class	40/37/38/37 dB (Japanese AQ7286 listing)
Center Wavelength Tolerance	+/-15 nm all wavelengths (manufacturing); optional +/-10 nm
Event Dead Zone Typical	0.5 to 0.6 m (3 ns pulse, RL >=55 dB)
Attenuation Dead Zone Typical	3.5/4 m class (wavelength dependent)
Distance Range	0.2, 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512 km
Pulse Width	3, 10, 20, 30, 50, 100, 200, 300, 500, 1000, 2000, 5000, 10000, 20000 ns
Sampling Resolution Min	2 cm
Sampling Points Max	256000
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)
Optical Connector	Universal adapter SC/FC/LC (suffix -USC, -UFC, -ULC, -ASC)
Display	via AQ7280 mainframe 8.4-inch LCD
Group Refractive Index	1.30000 to 1.79999
Laser Class	Class 1M / Class 1 class (1383/1550/1625 nm); confirm 1310 nm class on unit
Power Checker Option	not supported (AQ7286A/H/J)

PARAMETER	VALUE
Stabilized Light Source Option	not supported (AQ7286A/H/J)
Cooling	air-cooled fan on AQ7286-series OTDR units
Alias	AQ7286J

Notes

Specs from Yokogawa AQ7280/AQ7286 series datasheet and AQ7286J product announcement. AQ7286J is an OTDR plug-in-requires AQ7280 mainframe. Typical DR 42/39/40/39 dB (1625 nm 39 dB, unlike AQ7283J 40 dB at 1625 nm). Confirm adapter suffix and wavelength-tolerance option on the unit.

Laser Safety

Class 1M / Class 1 class (1383/1550/1625 nm); confirm 1310 nm class on unit

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

Aumictech

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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.