Multi touch module
One OTDR

AQ7280 Series
Optical Time Domain Reflectometer
In 2002, Yokogawa became a leading supplier of optical test and measurement solutions following the acquisition of Ando Electric. Today, with over 35 years of experience in optoelectronic technology and real world lab and field testing, Yokogawa is justifiably qualified to deliver field test equipment solutions with the world renowned quality and exceptional performance expected from an industry pioneer.

Responding to the growing needs for reliable and ease-of-use field test instruments for installation and maintenance of fiber optic networks, Yokogawa AQ7280 Optical Time Domain Reflectometer (OTDR) is designed to empower field technicians to make fast and precise measurements with confidence.

The AQ7280 satisfies a broad range of test and measurement needs in analyzing optical networks from access to core.

The AQ7280 OTDR delivers:

**RELIABILITY** – Robust design for operating under harsh field conditions. Proven operating system assuring stability, prompt response, and superior protection against software virus attacks.

**EASE-OF-USE** – Dual operation mode by multi-touch touchscreen and hard-key buttons. Fully automatic measurement and easy-to-read analysis reports through new software applications.

**SPEED** – Lightning startup time. Multi-tasking operation to enhance productivity. Immediate reporting via wireless connectivity.
35+ years of OTDR expertise

- 1915 YOKOGAWA founded
- 1933 ANDO founded
- 1981 First OTDR AQ-1702
- 2002 Yokogawa acquired ANDO
- 2010 Compact OTDR AQ1200
- 2014 Latest OTDR AQ7280
Key Features

AQ7280

Fast, Friendly Functionality... all at your Fingertips!

Multi-tasking
Enhancing productivity

Managed by a highly efficient operating system, multiple functions can work simultaneously. Now, users can perform OTDR measurements on a particular fiber core while simultaneously checking the power level and connector surface quality on others.

Smart Mapper
Single button measurement. Comprehensive network characterization. Easy to read report

Measurement acquisitions with multiple pulse widths and smart-algorithm enable users to detect and comprehensively characterize network events by pressing one single button. Simple, icon-based map view for easy interpretation of network events. Immediate PASS/FAIL judgment based on user-defined thresholds. Easily toggled trace view for manual supplementary analysis.

(DAvailable when /SMP option is selected.)

Dual-operation Mode
Touch screen and hard-key buttons

Tap, swipe, pinch or press. Choose between the high resolution 8.4-inch multi-touch capacitive touchscreen or the robust hard-key buttons in any combination desired. OTDR operations have never been easier!

Multi-Fiber Measurement
Database view. Organized. Quick preview of network characteristics

OTDR-based application in a database view. Guiding users in tracking multi fibers measurements in sequence. OTDR trace, power level and connector surface image of a particular fiber core are organized as one group. With PASS/FAIL judgment, fiber core performance is easily characterized.

Lightning Startup Time
Under 10 seconds!

Thanks to the latest high speed hardware and a highly efficient operating system, the AQ7280 starts up from completely OFF to measurement ready in seconds. It’s always ready when you are!
**Wireless Connectivity**
Remote control. Remote data transfer

Control the OTDR remotely using Windows™ operating system devices via wireless router connection technology. Transfer measurements results from the OTDR to Windows™ operating system devices via FlashAir™ technology. Send the results/reports by email/file transfer software for immediate reporting.

OTDR Data Transporter, a smartphone application for AQ7280, makes the file transfer easier.

*This feature may not be available due to the discontinuation of FlashAir™.

---

**15 Hours Battery Operation**
Just keeps on going

Imagine working an entire work shift at your remote work site without worrying about running out of battery power. The AQ7280’s powerful Li-Ion battery will last for an amazing 15 hours under the Telcordia standard conditions and 10 hours even with the laser continuously turned on!

---

**Modularity**
Full range of selections

12 OTDR units ranging from single mode to multi mode, from low dynamic range to ultra-high dynamic range, and 2 wavelengths to 4 wavelengths.

Selection of power sensor, light source, visible light source and fiber inspection probe for instrument’s customization based on users’ needs.

---

**Eagle Eye**
Hunt down your breakpoint precisely and promptly

Enabling highest possible sampling resolution in a long distance measurement range, distance offset error is reduced.

With a relatively small distance offset error, users are able to pinpoint the actual break location in high distance accuracy.

Faster location identification, faster repair time.

---

**Connector Quality Assurance**
Zoomed in, checked out, all fixed up

Using high-performance Lightel™ fiber inspection probe*¹, fiber connector surface is visualized for inspection of scratches and dirt. Reducing 90% of fiber cable problem.

Fiber Surface Test function*² automatically analyzes scratches and dirt and makes PASS/FAIL judgment based on IEC61300-3-35 compatible or arbitrary decision criteria.

*² Available when /FST option and a recommended probe are selected.
Valuable functions for easily troubleshooting network issues

**PDF Reporting**

Built-in post-processing software for generating OTDR reports in PDF format. Flexible configuration of report template to meet users’ report requirements. Using AQ7280 Wireless Connectivity, the PDF reports can be transferred through internet for immediate reporting.

**Macro Bending Detector**

Thanks to the OTDR advanced analysis function and macro bend characteristic, users can immediately identify and locate macro bend events along fiber network. Multi-wavelengths traces are acquired on same fiber, compared and analyzed automatically in a single-button operation. When loss difference of a same location event at different wavelengths is more than user’s defined threshold, the macro bend is detected!

**Intermittent Connection Monitoring**

Under cold weather conditions, fiber network connectivity can be interrupted intermittently due to bending/loose connections events. Identifying such intermittent interruption requires periodic monitoring and advanced analysis algorithm. The OTDR Schedule Measurement function is useful to monitor a particular fiber core based on user-defined measurement period and interval. Measurement results are compared with a reference trace and analyzed for any discrepancies. Based on user-defined loss threshold, discrepancy at a particular distance is identified and the occurrence time is recorded. (Available when /MNT option is selected.)

**Fault Locator**

OTDR-based application for simply identifying fiber break location. Adaptive, smart-algorithm based on selected network architectures, such as point-to-point or PON network topology. Simple view of distance information for easy interpretation. Easily toggled trace view for additional detail analysis.
PON Optimized

Excellent hardware performance and advanced analysis algorithm, enables the AQ7280* to accurately characterize Passive Optical Network (PON) through high-port-count splitters (up to 1 × 128). PON mode assists beginner/expert users in simply configuring OTDR measurement settings based on PON topology information for optimal results. Short event dead zone and high sampling resolution enable users to detect near-end location of connectors that are as close as 0.5 meters (<20 inches).

With the built-in optical cut filter and dedicated measurement port, the AQ7283F module is capable to measure live PON for maintenance purpose.

*Available in selected AQ7280 modules.

Multi-language Support

Wide selection of display languages to assist users in operating the AQ7280 in their native language.

Available languages including but not limited to Chinese, Czech, Dutch, English, Finnish, French, German, Italian, Norwegian, Polish, Portuguese, Spanish, Swedish, and Turkish.
Invaluable options supporting installation and maintenance works

Optical Power Meter & Checker

- Measures and displays optical power of a light source as an absolute/relative value for testing transmitter/network performance. Measurement results can be saved for reference purpose.
- Invaluable test instrument during installation and maintenance.
- Calibrated and selectable wavelength setting. Single-mode and Multi-mode measurement ready. Continuous wave and modulated wave detection capability.
- Two selections of optical power sensor are available, which are optical power meter and optical power checker (Integrated optical power meter)*, different on the specs and functions.

*Available in selected OTDR units as an option.

Optical Light Source*

- Outputs a stable, continuous wave of light for measuring end-to-end attenuation accurately when paired with Optical Power Sensor. Modulated light function at 270 Hz/1 kHz/2 kHz is also available for fiber identification or continuity check purpose on a live fiber network.

*Available in selected OTDR units as an option.

Visible Light Source

- Visible, continuous/modulated red light laser. Invaluable test instrument for checking continuity of patchcords, launch fibers, or short fiber trunks. Breaks and bendings in fiber can be identified visually as the visible light exits the fiber on such fault events.

AQ7933 Emulation Software

Software to display and analyze the trace data measured on an OTDR. It can also create and output reports of analysis results on a PC. Equipped with the remote controller and file transfer applications, this is a more powerful tool to assist your work.
Design and Selection Guide

<table>
<thead>
<tr>
<th>OTDR unit</th>
<th>Number of wavelengths</th>
<th>Dynamic range (dB)</th>
<th>Test application</th>
<th>Fiber network</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ7282A</td>
<td>2</td>
<td>SM 1310 (nm)</td>
<td>Maintenance</td>
<td>Metro</td>
</tr>
<tr>
<td>AQ7283A</td>
<td>2</td>
<td>SM 1383 (nm)</td>
<td></td>
<td>Access</td>
</tr>
<tr>
<td>AQ7284A</td>
<td>2</td>
<td>SM 1490 (nm)</td>
<td></td>
<td>PON</td>
</tr>
<tr>
<td>AQ7285A</td>
<td>2</td>
<td>SM 1550 (nm)</td>
<td></td>
<td>Core</td>
</tr>
<tr>
<td>AQ7283E</td>
<td>3</td>
<td>SM 1625 (nm)</td>
<td></td>
<td>MM 850 (nm)</td>
</tr>
<tr>
<td>AQ7283F</td>
<td>3</td>
<td>SM 1650 (nm)</td>
<td></td>
<td>SM 1300 (nm)</td>
</tr>
<tr>
<td>AQ7284H</td>
<td>3</td>
<td>MM 1300 (nm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQ7282G</td>
<td>2</td>
<td>MM 1300 (nm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQ7285K</td>
<td>2</td>
<td>MM 1300 (nm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQ7283J</td>
<td>3</td>
<td>MM 1300 (nm)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AQ7282M</td>
<td>2</td>
<td>MM 1300 (nm)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*1 Port2, Built-in filter
*2 Using an external filter

NOTE: Certain functions and ports may be optional. Please refer to the specifications section for details.
### Specifications

**AQ7280 OTDR Mainframe**

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Display</td>
<td>8.4 inch color TFT LCD (Resolution: 800 x 600, Multi-touch capacitive touchscreen)</td>
</tr>
<tr>
<td>Electrical interface</td>
<td>Unit interface x 1, Module interface x 1, USB 2.0 x 3 (TYPE A x 2, TYPE B (mini) x 1), Ethernet (10/100BASE-T, Option) x 1, SD card slot x 1</td>
</tr>
<tr>
<td>Remote control</td>
<td>USB TYPE B (mini), Ethernet (TCP/IP)</td>
</tr>
<tr>
<td>Data storage</td>
<td>Storage: 21000 waveforms, External storage: USB memory, SD card</td>
</tr>
<tr>
<td>File format</td>
<td>Write: SDR, CSV, CSV, BMP, JPG, PDF, Read: SOR, SET</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Approx. 287 mm (W) x 210 mm (H) x 80 mm (D) (excluding projections)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 2.2 kg (including internal battery and protectors, excluding OTDR unit and options)</td>
</tr>
</tbody>
</table>

**OTDR functions**

- Minimum readout resolution: Horizontal axis: 1 cm, Vertical axis: 0.001 dB
- Group refractive index: 1.30000 to 1.79999 (in 0.0001 steps)
- Distance unit: km, mkm, m
- Measurement: Distance, Loss, Return loss, and Return loss between two arbitrary points

**Analysis**

- Multi Trace Analysis
- Two-Way Trace Analysis
- Difference Trace Analysis
- Section Analysis
- Macro Bending Analysis

**Other functions**

- Multi Fiber Project
- Fault Locator
- Work Completion Notice
- File report
- Auto event search
- Pass/Fail judgment
- Schedule Measurement
- Option
- Smart Mapper

**AQ7280 OTDR Mainframe**

<table>
<thead>
<tr>
<th>Model</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ7282A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 1, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7283A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7284A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7285A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7286A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7288A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7289A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
<tr>
<td>AQ7290A</td>
<td>Wavelength (nm): 1310 x 25/1550 x 25, Number of optical port: 2, Pulse width (ns): 0.5, 1, 2, 5, 10, 20, 30, 50, 100, 200, 300, 400, 512, Event dead zone (m): 0.6, Attenuation dead zone (dB): 3.5/4, Dynamic range (dB): 30/36, 42/40, Optical connector: Universal Adapter SC, FC, LC, and SC Angled-PC, Laser class: Class 1M or Class 1, Maximum optical pulse output power: 8.4 W, Weight: Approx. 2.2 kg</td>
</tr>
</tbody>
</table>

**For all OTDR units**

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sampling resolution</td>
<td>Min. 2 cm</td>
</tr>
<tr>
<td>Number of sampling points</td>
<td>Max. 256000</td>
</tr>
<tr>
<td>Distance measurement accuracy</td>
<td>±0.3% (at 25°C)</td>
</tr>
<tr>
<td>Loss measurement accuracy</td>
<td>±0.03 dB/cm²</td>
</tr>
<tr>
<td>Return loss measurement accuracy</td>
<td>±2 dB</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Approx. 211 mm (W) x 110 mm (H) x 80 mm (D) (excluding projections)</td>
</tr>
<tr>
<td>Weight</td>
<td>Approx. 420 g</td>
</tr>
</tbody>
</table>

**Notes**

1. The LCD may contain some pixels that are always ON or OFF (0.002% or fewer of all displayed pixels including RGB), but this is not indicative of a general malfunction.
2. USB TYPE A is for external memory, external printer, and fiber inspection probe. USB TYPE B (mini) is for remote control and internal storage access with a PC.
### Optional functions for OTDR units

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Model</strong></td>
<td>AQ7280A, AQ7280B, AQ7280C, AQ7280D, AQ7280E, AQ7280F, AQ7280G, AQ7280H</td>
</tr>
<tr>
<td><strong>Power Checker</strong></td>
<td>Integrated optical power meter (OPM)</td>
</tr>
<tr>
<td>Wavelength setting</td>
<td>1310/1490/1550/1625/1650 nm</td>
</tr>
<tr>
<td>Power range</td>
<td>±50 to −5 dBm</td>
</tr>
<tr>
<td>Measurement accuracy</td>
<td>±0.5 dB</td>
</tr>
<tr>
<td>Optical input port</td>
<td>ODT port</td>
</tr>
<tr>
<td><strong>Stabilized Light Source (SLS)</strong></td>
<td>−3 dBm ±1 dB</td>
</tr>
<tr>
<td>Optical power output</td>
<td>3 dBm ±1 dB</td>
</tr>
<tr>
<td>Output power stability</td>
<td>±0.05/±0.05/±0.15</td>
</tr>
<tr>
<td>Modulation mode</td>
<td>CW, 270 Hz, 1 kHz, 2 kHz</td>
</tr>
<tr>
<td>Optical output port</td>
<td>ODT port</td>
</tr>
<tr>
<td>Laser class</td>
<td>Class 1M or Class 1</td>
</tr>
</tbody>
</table>

### General specifications

<table>
<thead>
<tr>
<th>Items</th>
<th>Specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Operating temperature</strong></td>
<td>−10 to 50 °C, +30 °C when AC adapter is being used, 0 to 25 °C when the battery is being charged</td>
</tr>
<tr>
<td><strong>Storage temperature</strong></td>
<td>−20 to 60 °C</td>
</tr>
<tr>
<td><strong>Humidity</strong></td>
<td>0 to 90% RH (20 to 90% with 739874 AC adapter, non-condensing)</td>
</tr>
<tr>
<td><strong>Altitude</strong></td>
<td>4000 m</td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>230 V AC or 24 V DC (10% margin)</td>
</tr>
<tr>
<td><strong>Battery</strong></td>
<td>Li-ion</td>
</tr>
<tr>
<td><strong>Operating time</strong></td>
<td>15 hours (Telcordia GR-196-CORE Issue 2 2010), 10 hours (Continuous measurement)</td>
</tr>
<tr>
<td><strong>Recharge time</strong></td>
<td>6 hours</td>
</tr>
<tr>
<td><strong>EMC</strong></td>
<td>EN 61326-1 Class A, EN 55011 Class A</td>
</tr>
<tr>
<td><strong>Safety</strong></td>
<td>EN 61010-1 Class A (2014 Class 3), IEC60825-1: 2007, IEEE802.11b</td>
</tr>
</tbody>
</table>
## Models and suffix codes

### OTDR Mainframe

<table>
<thead>
<tr>
<th>Models</th>
<th>Suffix codes</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ7280</td>
<td>AQ7280 OTDR Mainframe</td>
<td></td>
</tr>
</tbody>
</table>

#### Language
- HJ: Japanese/English
- HE: English (Multi language)
- HU: Chinese
- HK: Chinese/English
- HR: Korean/English
- RU: Russian/English

### Options
- /FST: Fiber Surface Test function
- /MNT: Monitoring function
- /SMP: Smart Mapper function
- /LAN: Ethernet
- /SB: Shoulder Belt

### AC adapter

- *Power checks* (Not inluded in AQ7280. Please order separately.)

<table>
<thead>
<tr>
<th>Models</th>
<th>Suffix codes</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>739674</td>
<td>AC Adapter</td>
<td></td>
</tr>
</tbody>
</table>

#### Power cord
- D: UL/CSA standard, 125 V
- F: VDE standard, 250 V
- H: Chinese standard, 250 V
- N: Brazilian standard, 250 V
- P: Korean standard, 250 V
- Q: BS/Singaporean standard, 250 V
- R: Australian standard, 250 V
- T: Taiwanese standard, 125 V
- A: Argentine standard, 250 V

*1* For outside the countries that require CE marking.

### OTDR units

<table>
<thead>
<tr>
<th>Models</th>
<th>Suffix codes</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ728A</td>
<td>2WL 1310/1550 nm 38/36 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728A</td>
<td>2WL 1310/1550 nm 42/40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728A</td>
<td>2WL 1310/1550 nm 50/50 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728E</td>
<td>3WL 1310/1550/1625 nm 42/40, 40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728F</td>
<td>3WL 1310/1550/1650 nm 42/40, 40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728H</td>
<td>3WL 1310/1550/1675 nm 42/40/39 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728H</td>
<td>3WL 1310/1550/1675 nm 46/45/44 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728G</td>
<td>3WL 1310/1550/1675 nm 43/42/41/40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728K</td>
<td>4WL 1310/1490/1550/1675 nm 42/43/42/40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728J</td>
<td>4WL 1310/1383/1550/1675 nm 42/43/42/40 dB</td>
<td></td>
</tr>
<tr>
<td>AQ728M</td>
<td>2WL 850/1300 nm (MM) 25/27 dB</td>
<td></td>
</tr>
</tbody>
</table>

#### Optical connector
- USC: Universal Adapter (SC)
- UPC: Universal Adapter (PC)
- ULC: Universal Adapter (LC)
- ASC: Universal Adapter (SC Angled-PC)*

#### Options
- JPC: No universal adapter

*1* Not applicable to AQ7283M
*2* Not applicable to the Port2 of AQ7283E and AQ7283F
*3* Not applicable to the wavelength 1383 nm of AQ7283J.
*4* The port for 1650 nm or 1625 nm is equipped with a built-in filter.

This is a Class A instrument based on Emission standards EN61326-1 and EN55011, and is designed for an industrial environment.

Operation of this equipment in a residential area may cause radio interference, in which case users will be responsible for any interference which they cause.

---

**Notice**

Before operating the product, read the user’s manual thoroughly for proper and safe operation.

---

### OPM/VLS modules

<table>
<thead>
<tr>
<th>Models</th>
<th>Suffix codes</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ2780</td>
<td>OPM Module</td>
<td></td>
</tr>
<tr>
<td>AQ2781</td>
<td>High Power OPM Module</td>
<td></td>
</tr>
<tr>
<td>AQ2780V</td>
<td>OPM &amp; VLS Module</td>
<td></td>
</tr>
</tbody>
</table>

#### Optical connector
- SCC: Universal Adapter (SC)
- FCC: Universal Adapter (FC)
- LMC: Ferrule Adapter ($1.25)

### Application software

<table>
<thead>
<tr>
<th>Models</th>
<th>Suffix codes</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>AQ7933</td>
<td>AQ7933 Emulation Software</td>
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</table>

#### Language
- HE: English/Japanese

### Accessories (Sold separately)

<table>
<thead>
<tr>
<th>Names</th>
<th>Models</th>
<th>Descriptions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Soft Carrying Case</td>
<td>739662</td>
<td></td>
</tr>
<tr>
<td>Battery Pack</td>
<td>739887</td>
<td></td>
</tr>
</tbody>
</table>

### Yokogawa's Approach to Preserving the Global Environment

- Yokogawa's electrical products are developed and produced in facilities that have received ISO14001 approval.
- In order to protect the global environment, Yokogawa's electrical products are designed in accordance with Yokogawa's Environmentally Friendly Product Design Guidelines and Product Design Assessment Criteria.

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**https://tmi.yokogawa.com/**

*The contents are as of June 2021, Subject to change without notice.*

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*Printed in Japan, 10/07 (KPI)*

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