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**Data Sheet**

August 1, 2026

ANRITSU

## Anritsu MZ1834A PAM4 Converter

The Anritsu MZ1834A is a passive 4PAM (PAM4) converter accessory for the MP1800A Signal Quality Analyzer. Combined with a 2-channel MU18302xA PPG, it converts two differential NRZ data streams into differential PAM4 output for high-speed backplane, optical module, and 400 GbE physical-layer R&D. The wideband passive architecture preserves the MP1800A PPG waveform quality with low intrinsic jitter. Related products include the higher-amplitude MZ1834B, the MZ1838A 8PAM converter, and the G0375A 32 Gbaud power PAM4 converter. PAM4 signal generation for 400 GbE and high-speed interconnect R&D; BER and eye-margin testing with MP1800A PPG/ED systems; backplane and optical transceiver characterization at baud rates up to 32.1 Gbaud. MZ1834B: higher-amplitude 4PAM converter sibling G0375A: 32 Gbaud power PAM4 converter (high amplitude to about 2.2 Vp-p single-ended class) Operate only with compatible MP1800A PPG modules within rated temperature. Observe connector torque practice. Do not exceed input amplitude limits. MZ1834A is a converter accessory, not a stand-alone pattern generator. Confirm PPG option (012 vs 013) before quoting output amplitude. For BER of PAM4, pair with appropriate decoder/ED (for example G0376A + ED in Anritsu PAM solutions).



MODEL

**Anritsu MZ1834A**

CALIBRATION

**Available on request**

CONDITION

**Used**

STATUS

**In stock**

RFQ / SKU

**MZ1834A**

LISTING

<https://aumictechlabs.com/products/mz1834a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

**This unit**

Anritsu MZ1834A – PAM4 Converter, The MZ1834A is a high-speed PAM4 converter designed for testing and development of advanced optical communication systems. It supports data rates required for 100G and 400G Ethernet applications, offering precise signal conversion and low jitter performance. This unit enables accurate PAM4 waveform generation and analysis, facilitating evaluation of optical transmitters, receivers, and system components. It is ideal for research labs, component manufacturers, and telecom testing setups. With reliable modulation quality and excellent signal integrity, the MZ1834A allows engineers to validate performance of communication technologies. Its solid design, software compatibility, and versatile input/output options ensure seamless integration into test systems.

## Features & description

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From manufacturer datasheet

### Features

- Passive PAM4 converter (4-level PAM)
- Differential Data / XData outputs
- Four differential NRZ inputs from 2ch PPG (Data1/XData1, Data2/XData2)
- Baud rate support 2.4 to 32.1 Gbaud class with MU18302xA PPG
- Typical Tr/Tf about 12 ps (20%-80%) in PAM4 solution literature
- Compact remote-head form factor near the DUT
- PAM level control via PPG amplitude settings / PAM Control GUI
- K connectors (female out, male in)

## MZ1834A Characteristics / Specifications

| PARAMETER             | VALUE                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Model                 | MZ1834A                                                                                                                                                                                                                                                               |
| Manufacturer          | Anritsu                                                                                                                                                                                                                                                               |
| Instrument Type       | 4PAM / PAM4 converter for MP1800A                                                                                                                                                                                                                                     |
| Host System           | MP1800A with MU18302xA 28G/32G 2ch PPG (typical) Data Output                                                                                                                                                                                                          |
| Number of Outputs     | 2 (Data, XData), differential                                                                                                                                                                                                                                         |
| Modulation            | PAM4 (0-3 levels)                                                                                                                                                                                                                                                     |
| Amplitude             | 0.238 to 0.832 Vp-p with MU18302xA-013 (3.5 V option PPG class)                                                                                                                                                                                                       |
| Connector             | K (female) Data Input                                                                                                                                                                                                                                                 |
| Number of Inputs      | 4 (Data1, XData1, Data2, XData2), differential                                                                                                                                                                                                                        |
| Insertion Loss        | -16 dB nominal (data input to data output)                                                                                                                                                                                                                            |
| Operating Temperature | 15 to 35 C (MU18302xA ambient)                                                                                                                                                                                                                                        |
| Storage Temperature   | -20 to 60 C                                                                                                                                                                                                                                                           |
| Mass                  | 2 kg max                                                                                                                                                                                                                                                              |
| Dimensions            | 20.4 × 92.2 × 121.7 mm (excluding protrusions) Related Models                                                                                                                                                                                                         |
| MZ1834B               | higher-amplitude 4PAM converter sibling                                                                                                                                                                                                                               |
| MZ1838A               | 8PAM converter (3ch PPG)                                                                                                                                                                                                                                              |
| G0375A                | 32 Gbaud power PAM4 converter (high amplitude to about 2.2 Vp-p single-ended class) Standard Operating Conditions Operate only with compatible MP1800A PPG modules within rated temperature. Observe connector torque practice. Do not exceed input amplitude limits. |

# General Specifications & Supplementary Characteristics

| PARAMETER             | VALUE                                                                                                                                                                                                                                                                 |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Storage temperature   | 20 to 60 C                                                                                                                                                                                                                                                            |
| Operating temperature | 15 to 35 C (MU18302xA ambient)                                                                                                                                                                                                                                        |
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| Mass                  | 2 kg max                                                                                                                                                                                                                                                              |
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# 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                                                                                                 |                                                                 |
| Specifications                                                                                                 |                                                                 |
| PARAMETER                                                                                                      | VALUE                                                           |
| Model                                                                                                          | MZ1834A                                                         |
| Manufacturer                                                                                                   | Anritsu                                                         |
| Instrument Type                                                                                                | 4PAM / PAM4 converter for MP1800A                               |
| Host System                                                                                                    | MP1800A with MU18302xA 28G/32G 2ch PPG (typical)                |
| Data Output                                                                                                    |                                                                 |
| Specifications                                                                                                 |                                                                 |
| PARAMETER                                                                                                      | VALUE                                                           |
| Number of Outputs                                                                                              | 2 (Data, XData), differential                                   |
| Modulation                                                                                                     | PAM4 (0-3 levels)                                               |
| Amplitude                                                                                                      | 0.238 to 0.475 Vp-p with MU18302xA-012 (2 V option PPG class)   |
| Amplitude                                                                                                      | 0.238 to 0.832 Vp-p with MU18302xA-013 (3.5 V option PPG class) |
| Connector                                                                                                      | K (female)                                                      |
| Data Input                                                                                                     |                                                                 |
| Specifications                                                                                                 |                                                                 |
| PARAMETER                                                                                                      | VALUE                                                           |
| Number of Inputs                                                                                               | 4 (Data1, XData1, Data2, XData2), differential                  |
| Amplitude                                                                                                      | 0.5 to 3.5 Vp-p                                                 |
| Connector                                                                                                      | K (male)                                                        |
| Insertion Loss                                                                                                 | -16 dB nominal (data input to data output)                      |
| Note: Use J1359A coaxial adapters to protect connectors; tighten four PPG connectors evenly with torque wrench |                                                                 |
| Environmental / Mechanical                                                                                     |                                                                 |
| Environmental / Mechanical                                                                                     |                                                                 |
| PARAMETER                                                                                                      | VALUE                                                           |
| Operating Temperature                                                                                          | 15 to 35 C (MU18302xA ambient)                                  |

| PARAMETER           | VALUE                                          |
|---------------------|------------------------------------------------|
| Storage Temperature | -20 to 60 C                                    |
| Mass                | 2 kg max                                       |
| Dimensions          | 20.4 x 92.2 x 121.7 mm (excluding protrusions) |

Related Models

### Specifications

| PARAMETER | VALUE                                                                               |
|-----------|-------------------------------------------------------------------------------------|
| MZ1834B   | higher-amplitude 4PAM converter sibling                                             |
| MZ1838A   | 8PAM converter (3ch PPG)                                                            |
| G0375A    | 32 Gbaud power PAM4 converter (high amplitude to about 2.2 Vp-p single-ended class) |

Standard Operating Conditions

Operate only with compatible MP1800A PPG modules within rated temperature. Observe connector torque practice. Do not exceed input amplitude limits.

Operational Notes

MZ1834A isaconverter accessory, notastand-alone pattern generator. Confirm PPG option (012 vs 013) before quoting output amplitude. For BER of PAM4, pair with appropriate decoder/ED (for example G0376A + ED in Anritsu PAM solutions).

### Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: [sales@aumictech.com](mailto:sales@aumictech.com) · +1 (484) 841-9341

#### Aumictech

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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.