

ANRITSU

MP1758A

The Anritsu MP1758A is a high-performance 4-channel Pulse Pattern Generator designed for testing high-speed digital systems, optical transceivers, and multi-channel communication interfaces. Capable of generating pattern rates up to 12.5 Gb/s per channel, it offers programmable patterns up to 128 Kbit and seven pseudo-random binary sequence (PRBS) patterns with independent channel control for amplitude, offset, and clock-to-data delay.

SPECIFICATIONS

General

Interfaces	GPIO
Display	6.5-inch color TFT LCD

Physical

Power Supply	100 to 120 V AC / 200 to 240 V AC, 47.5 to 63 Hz, ≤ 400 VA
Operating Temperature	0 to +40 °C °C
Dimensions (W×H×D)	426 (W) × 221.5 (H) × 451 (D) mm mm
Weight	25 kg

Data Output Channels

Number of Data Channels	4
Number of Clock Channels	2
Data/Clock Output Amplitude Range	0.5 to 2.0 Vp-p
Data/Clock Output Offset Voltage Range	-2.0 to +2.0 VOH
Channel Amplitude Adjustment	Independently adjustable for each channel
Channel Offset Adjustment	Independently adjustable for each channel

Timing & Clock Characteristics

Maximum Data Rate	12.5 Gb/s
Internal Clock	Built-in synthesized clock signal
Data to Clock Delay Range	-500 ps to +500 ps
Channel Delay Adjustment	Independently adjustable for each channel

Pattern & Sequence Generation

Pattern Modes	Programmable pattern and Pseudo-random (PRBS)
Programmable Pattern Length	Up to 128 Kbit per channel
PRBS Pattern Lengths	Seven patterns from $2^7 - 1$ to $2^{31} - 1$
PRBS Channel Phase Relationship	1/4 phase difference for each channel

Outputs

Output Impedance	50 Ω
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Inputs & Outputs

Connector Type (Data and Clock)	SMA (female)
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Frequency

Internal Synthesizer Frequency Range (Option 01)	100 MHz to 12.5 GHz
Minimum Operating Frequency	100 MHz

Delay Control

Delay Resolution	2 ps
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Trigger Output

Trigger Output Amplitude	≥ 1 Vp-p
Trigger Output Impedance	50 Ω

Environmental

Storage Temperature Range	-20 to +60 °C
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TECHNOLOGY

Pulse Pattern Generation

APPLICATIONS

Multi-channel high-speed digital transmission and optical module testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.