

TPNA-1000™

Triple Play Network Analyzer

Section V: Specifications



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Digital Signal Measurement

Frequency	Range: 5 MHz to 1 GHz Accuracy: $\pm 10 \text{ ppm} \times 10^{-6}$ Resolution: 10 kHz
Power Level Measurement	-30 dBmV ~ 50 dBmV (30 dB μ V ~ 110 dB μ V)
Level	Resolution: 0.1 dB Accuracy: $\pm 2.5 \text{ dB}$ (-10 to +40 °C) C/N > 20 dB
Input Impedance	75 Ohm
MER	~ 40 dB Accuracy: $\pm 2 \text{ dB}$
EVM	Yes
BER	1E-3 ~ 1E-9 (Pre/Post RS)
Modulation Type	16/32/64/128/256 QAM ITU-T J.83 ANNEX A/B/C
Constellation	Yes
Digital Statistics	Yes

Analog TV Measurement

Frequency	Range: 5 MHz to 1 GHz Accuracy: $\pm 10 \text{ ppm} \times 10^{-6}$ Resolution: 10 kHz
Level	Range: -30 dBmV ~ 60 dBmV (30 dB μ V ~ 120 dB μ V) Accuracy: $\pm 3.0 \text{ dB}$ (-10 to +40 °C) Resolution: 0.1 dB
Input Impedance	75 Ohm
Other Functions	C/N, V/A. Tilt, Limit Test, Channel Scan/Management, Autotest, Trunk Voltage

Spectrum Analysis

Frequency	Range: 5 MHz to 1 GHz Accuracy: $\pm 10 \text{ ppm} \times 10^{-6}$ Resolution: 100 kHz
Power Level Range	-50 dBmV ~ +60 dBmV (10 dB μ V ~ 120 dB μ V)
Level	Resolution: 0.1 dB Accuracy: $\pm 1.5 \text{ dB}$
Dynamic Range	60 dB
Input Impedance	75 Ohm
RBW	30 kHz / 100 kHz / 300 kHz / 1 MHz / 3 MHz (Self-Adapt)
Sweep Time	300 ms/field (8 MHz)
Measurement Bandwidth	995 MHz MAX
Return Path Noise Testing	Yes

Cable Modem

Main Function	DOCSIS 2.0, EuroDOCSIS 2.0 CM Statistics Function, Ping, Throughput, Web Browser
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QAM Source

Frequency Range	5 MHz to 65 MHz
MER	>40 dB \pm 2 dB
Modulation Type	QPSK; QAM (8/16/32/64); CW (continuous wave)
Symbol Rate	160/320/640/1280/2560/5120 KSym/s
Level Output	8 dBmV ~ 54 dBmV (68 ~ 114 dB μ V)

Other

Dimensions	9.65" (H) x 5.12" (W) x 2.36" (D) 245 mm (H) x 130 mm (W) x 60 mm (D)
Weight	2.5 lbs (About 1160 grams)
Power Supply	14.8V, 2.1 AH Lithium-Ion Rechargeable Battery
Charge Time	4 ~ 5 hours
Run Time	> 6 hours (Fully Charged)
Operating Temperature	-10 to +40 °C
Storage Temperature	-20 to +50 °C
Ports	USB, LAN
Software	TPNAworx

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