



SPECTRAN® V6 TABLET

RUGGED REAL-TIME SPECTRUM ANALYZER



TECHNICAL DATASHEET

Aaronia SPECTRAN® V6 Mobile 500TA-6
Real-Time Spectrum Analyzer Tablet PC



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SPECTRAN V6 Tablet 500TA-6 SKU 102/072

Integrated Tablet PC Specifications

Platform	▶ AMD Hawk Point FP8
CPU	▶ AMD Ryzen™ 7 8-Core 8845HS (24MB Cache, 3.8GHz-5.10GHz)
GPU	▶ AMD Radeon™ 780M
RAM	▶ 64 GB LPDDR5x
SSD	▶ 2 TB M.2 NVMe
OS	▶ Windows 11
Display	▶ 15.6" Touchscreen, 1500nit
Batteries	▶ 2x Rechargeable (Hot-Swap)
Runtime	▶ Typ. > 2h / battery (hot-swappable)
Connectors	▶ HDMI, USB-C Gen 3.2 (5 Gbps), 3x USB-A 3.0, 2x RJ45 2.5 GbE, SFP+, 3.5 mm audio jack, RS232, SD Reader
Expansion slots	▶ 2x M.2 2280, 3x M.2 2242, SIM
Cameras	▶ Front and rear
Misc	▶ Smart pen, carrying handle, hands-free strap, back stand, VESA 100 mount, 220W power supply
Sensors	▶ G-Sensor, light sensor
Cooling	▶ Heatsink with fan
Operating temperature	▶ -40° to +55°C
Storage temperature	▶ -50° to +70°C
Certificates	▶ CE / FCC / RoHS
Weight	▶ < 5,000 g
Dimensions (LxBxH)	▶ 411 x 270 x 56 mm

OmniLOG® 30800 Antenna

Type	▶ Omnidirectional
Frequency range	▶ 300 MHz to 8 GHz
Polarization	▶ Linear
Gain (max.)	▶ 2 dBi
Impedance	▶ 50 Ohms
Avg. VSWR	▶ 2.5
Operating temperature	▶ -20°C to +70°C
Connector	▶ SMA (m)
Dimensions (LxBxH)	▶ 173 x 62 x 9 mm
Weight	▶ 54 g

Spectrum Analyzer Specifications

Frequency range	▶ Gapless 75 MHz to 6 GHz
Rx	▶ 1 (+23 dBm)
Tx	▶ 1 (+20 dBm)
Frequency resolution	▶ 1 Hz
Frequency accuracy	▶ 0.5 ppm
Real-time bandwidth Rx	▶ > 100 MHz
Sweep speed	▶ 400 GHz/s
Resolution bandwidth	▶ 62 mHz to 200 MHz
Internal low noise pre-amp	▶ Yes
DANL	▶ Max. -168 dBm/Hz, min. -150 dBm/Hz
IQ POI	▶ < 30 ns
ADC	▶ 2GSPS 16 Bit
DAC	▶ 2GSPS 14 Bit
DSP processing	▶ 930 GMACs
FPGA	▶ XC7A200T-2

