

Tidal Waves™



Sophisticated 2G, 3G, 4G and 5G survey tool.

Driven by the need for a rugged SWAP package that could support two Epiq miniPCIe Software Defined Radios, RIVA Networks has re-tasked Sub U Systems' Micro Extreme router as an efficient survey platform capable of scanning 2G, 3G, 4G and 5G in a small form factor.

5G survey tool !

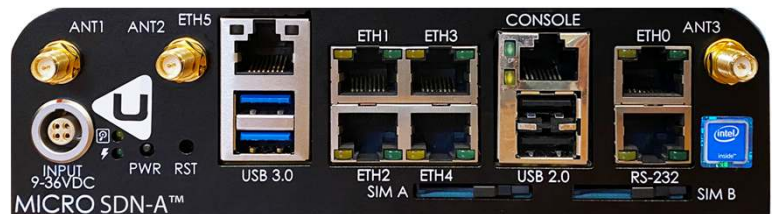
Key Tidal Waves Features

Single Board Computer (SBC) with:

Intel Core i7-6820EQ 2.80GHz
(4 cores, 8 threads)
RAM: 16GB (Up to 32GB)
Storage: 1TB SSD

6x - 1Gbps Ethernet Ports
2x - USB 3.0 Ports
2x - USB 2.0 Ports
4x - SMA Ports
1x - Mini Display Port

- Two mini PCIe slots, loaded with 2 Epiq Sidekiq Software Defined Radios.
- Working in combination, multiple Epiq radios can distribute the workload and speed up the results. One radio is dedicated to legacy networks (2G, 3G, 4G) and a second radio dedicated to 5G.
- Magnetic GPS antenna with mapping to Rover.
- Smartphone app with simple start / stop system controls.
- Real time streaming of data as it is collected.



Cellular network scanning software that utilizes two Software Defined Radios (SDR) to detect and decode MIB and various SIB attributes (including neighbors) on GSM, UMTS, LTE-TD, LTE-FD and 5G NR radios.

The **Tidal Waves™** Solution includes:

- High performance Single Board Computer.
- Two Epiq Sidekiq SDRs.
- Smartphone with control App
- 9 – 36 VDC
- 2 Antennas (4G and 5G)
- 110/220 VAC adapter.
- Rugged travel case.

No OS installed on the device, OS and data stored on separate removable USB drives. Data may also be streamed to the cloud for immediate analysis.

RIVA Networks can perform custom software enhancements as needed - based on customer requirements.



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