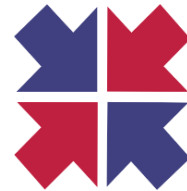


Tsunami Waves™



Now with 5G

Driven by the need for a SWAP package that could support up to five Epiq miniPCIe Software Defined Radios, RIVA Networks has designed a platform capable of managing both the demanding computing power and heat dissipation necessary to operate so many radios in a light, small form factor.

Key Tsunami Waves Features

- Single Board Computer (SBC) with a 6 core Intel Xeon processor, capable of 12 threads and 12 MB cache.
- The SBC includes a very fast, wideband 698-2700 digitizing SDR/computing platform.
- Six mini PCIe slots, loaded with up to 5 Epiq Sidekiq Software Defined Radios.
- Working in combination, multiple Epiq radios can distribute the workload and speed up the results. **Scanning 2G, 3G, 4G LTE and 5G networks in less than 1 minute.**
- Numerous I/O connections including: Ethernet, USB, Serial, VGA and HDMI.
- Six mini PCIe slots can be used for Epiq radios, SSD memory modules, LTE wireless modems, GPS, Bluetooth, Wi-Fi modules or any other miniPCIe devices.
- Programmable LCD screen and touch pads to control Tsunami operations.
- USB GPS puck for mapping included.
- Smartphone for system start /stop control.



The **Tsunami Waves™** Solution includes:

- High performance Single Board Computer.
- Five Epiq Sidekiq SDRs.
- Antenna.
- 110/220 VAC adapter.
- Rugged travel case.

Cellular network scanning software capable of detecting and decoding MIB and various SIB attributes (including neighbors) for **2G, 3G, 4G LTE and 5G networks in less than 1 minute.**

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

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

Tsunami Waves™

Tsunami Waves Specifications

Physical/Environmental	
L x W x H (inches)	9.0 x 6.5 x 6
Weight	6.5 pounds
Operating Temperature	32 – 120 F
Power	
12 VDC	AC Adapter included
On-Board PC Specs	
Processor	Intel Xeon Processor E-2176M
Processor Base Frequency	2.7GHz
Cache	12MB L2
Graphics	GT2 GPU
Memory	266MT/s dual channel DDR4 x1) 16GB minimum, x2) 16GB recommended
External Peripheral Connections	
Ethernet	Qty (2) RJ45 - 10/100/1000
USB 3.0	Qty (4)
Video	Qty (1) HDMI, Qty (1) VGA
Other	Qty (1) Serial
Wireless	
Receive Only Frequencies	698 MHz to 2.7 GHz
Antenna Connection	Qty (1) TNC
Wideband RF Combiner	698-2700Mhz, isolation 25dB, 50 Ohm, Amplitude balance .2dB
Software Defined Radio Receivers	
Epiq Sidekick Mini PCIe	Quantity 5

