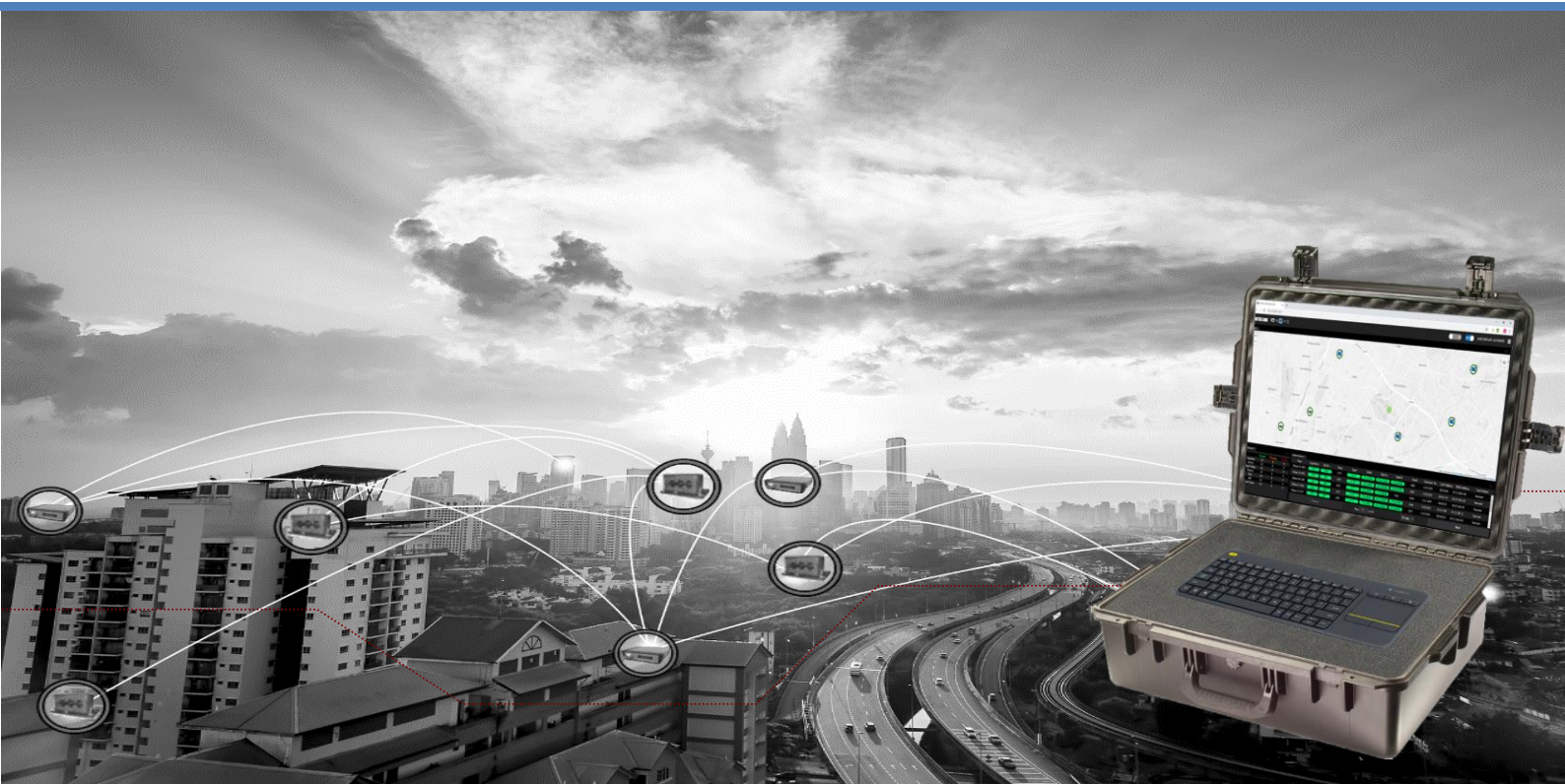


# **MOTUS** Field Acquisition Server



## **Local Wifi Network**

# Fast Local Ad Hoc Seismic Network Deployments

## Overview

MOTUS Field Acquisition Server (MFAS) is a ruggedized (IP67) processing unit consisting of a powerful processing board with SSD disks in RAID configuration for local storage, LCD screen, keyboard with touchpad and embedded wifi multichannel router, that can be deployed in the field to support real time acquisition of a MOTUS digitizers local network with Wifi connectivity. MFAS wifi router comes with at least 3 channels connected to 3 external 120° Omni Sector antennas. Both MFAS wifi router and MOTUS wifi module include the latest Qualcomm Atheros chipset that support both star and mesh wifi topology configurations. Mesh connectivity is very useful when line of sight to the central processing station is not available for every field digitizer.



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## Applications

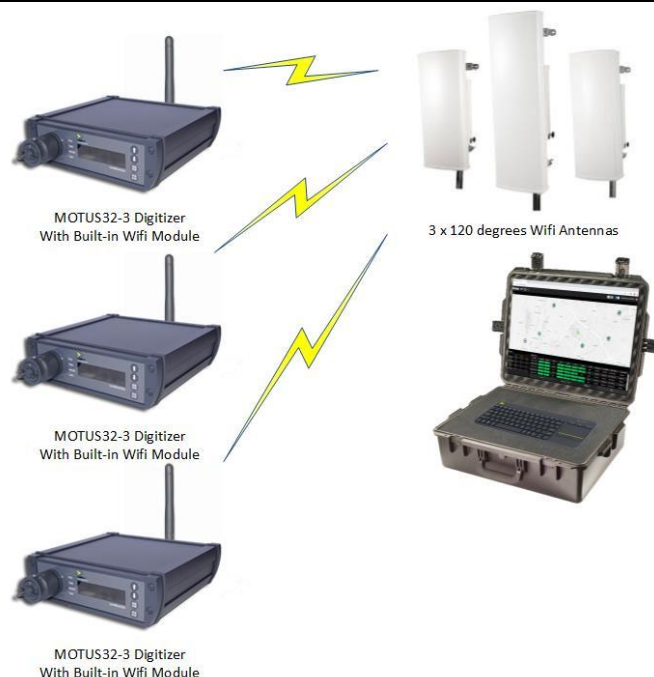
Ideal for:

- Passive Tomography Deployments
- Earthquake Early Warning
- Hydraulic Fracturing Monitoring



# Specifications

Mechanical/Environmental	
Dimensions	Interior: 22" x 17" x 8"
Weight	7Kg
Watertight Integrity	IP67
Operating temperature	-29°C to 60°C
Injection Molded HPX™ high performance resin	
Watertight, crushproof, and dustproof	
Powering	
Operating power voltage	9 to 28 VDC
Average Power Consumption	40W
Power input protection	Over voltage, ESD, Over current and Inverse polarity protections
Communications	
Interfaces	Ethernet, RS232, USB 3.0
Wifi router	mesh/star topology
LCD Monitor	
Resolution	1920x1080
Input	HDMI
Processing	
Quad core processor, 16Gb RAM, 2 SSD disks 256Gb each.	
Linux based OS, hosting seedlink acquisition server; MOTUS NMS	
Wifi router	
Standards	IEEE 802.11bgn
Data Rate	802.11b: 11Mbps / 802.11g: 54Mbps / 802.11n: 150Mbps
Operating frequency	IEEE 802.11bgn ISM Band, 2.400GHz ~ 2.4835GHz
External Antenna	
Type	Tri-Antenna Array with 360° coverage
2.4 GHz 17 dBi (3) 120° Omni Sector - 3 Inputs to 3 Antennas	



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## **ABOUT SATWAYS**

Satways is a provider of Public Safety, Security and Smart City applications. With experience in mission critical incident management and communication applications, solutions are fine-tuned for specific needs of Public Safety, Local Government, Contractors, Security, transports, logistics and Utility markets.

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