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Advancement through Innovation

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Mythical Creatures

Antelope/Kinemetrics User's Group

5/28-5/30, 2019

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Manager, Software Engineering
Kinemetrics, Inc.

The Quanterra Q8

Overview

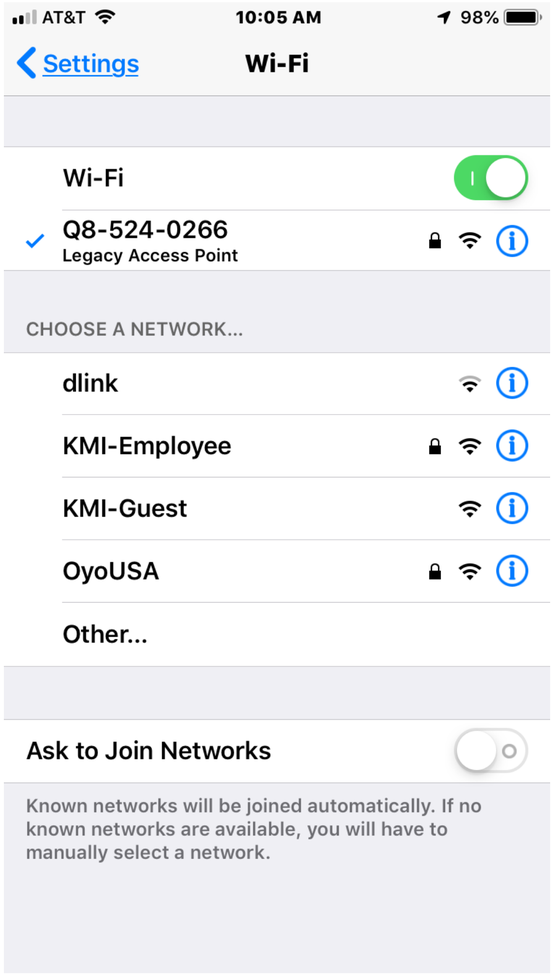
- 6 channels 24-bit wideband dynamic range; 7th separate 24-bit channel for calibration signal digitization.
- Ultra-low power (<300mW for 3 channels recording including GPS).
- One 32 GB non-removable storage with power-fail safe integrity and two 32 GB removable storage media (up to 256 GB possible).
- Built-in 3-axis ±2g 24-bit MEMS Accelerometer separately and synchronously digitized.

Q8

We have a few units in the hands of early adopter customers and are doing small preproduction runs of advanced prototypes.

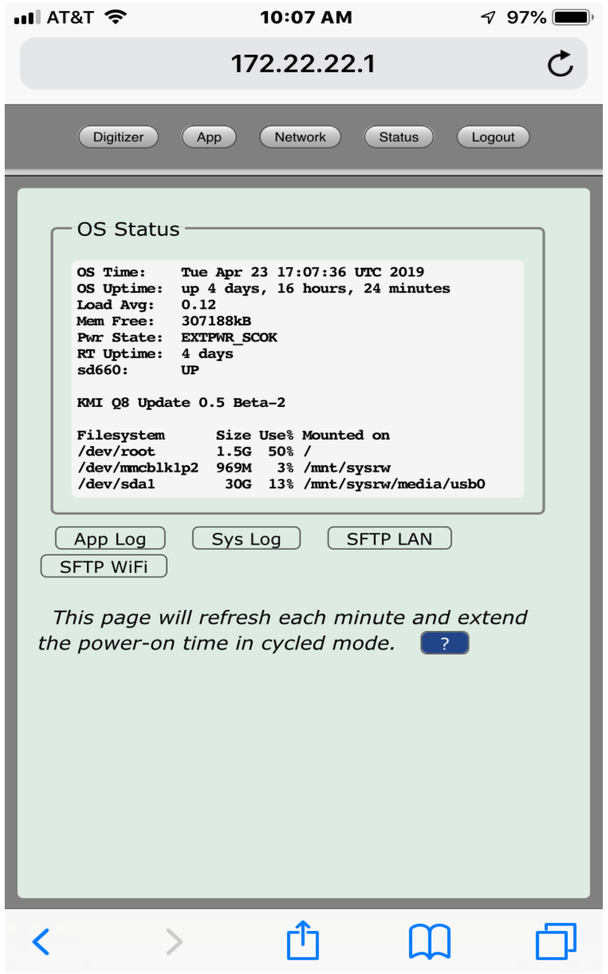
WiFi Access Point[1]

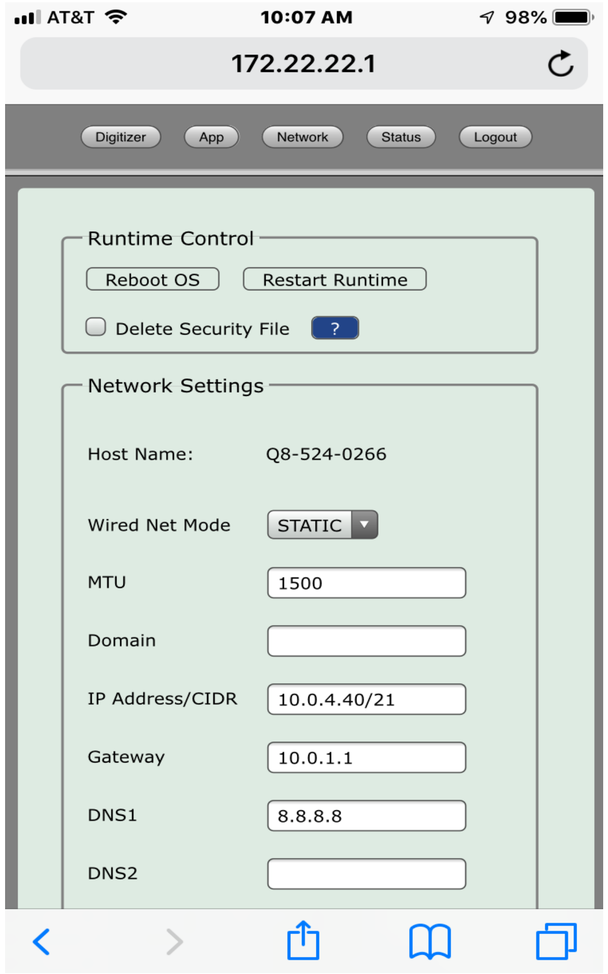
Useful for Initial Setup and ongoing Configuration



WiFi Access Point [2]

Useful for Initial Setup and ongoing Configuration



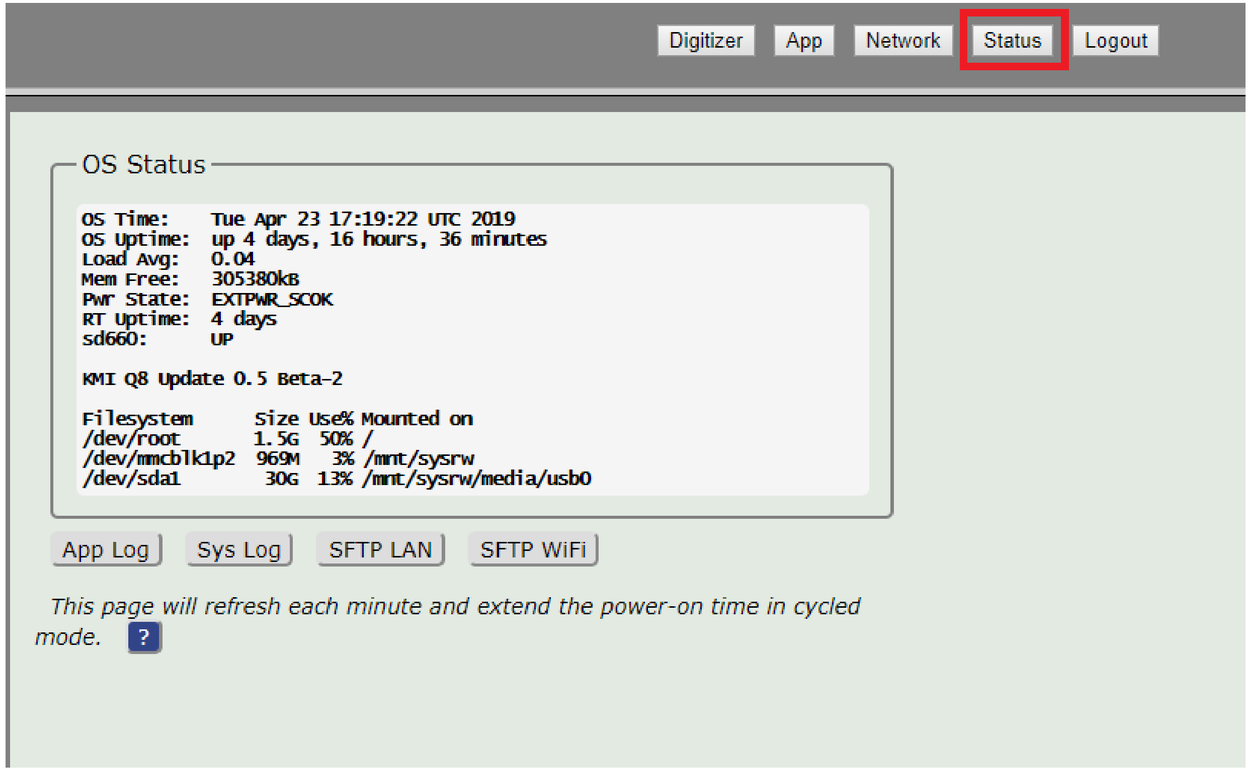


Web Interface[1]

Landing Page

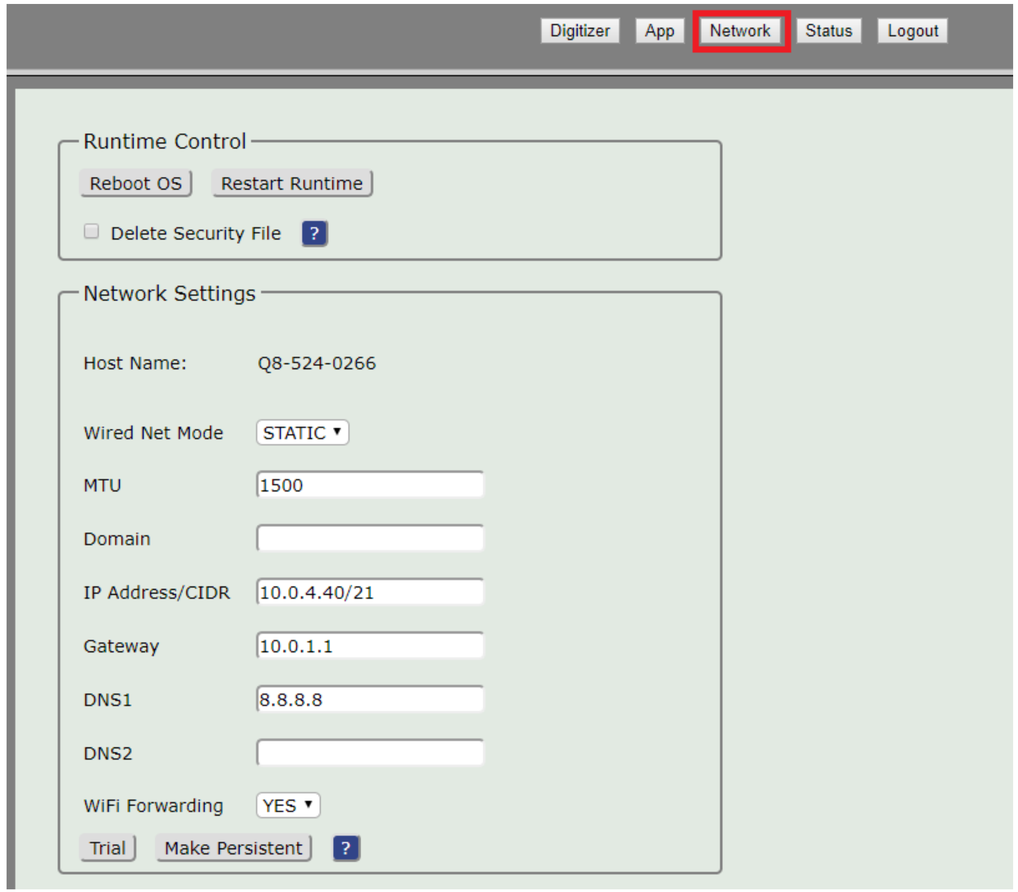
Web Interface[2]

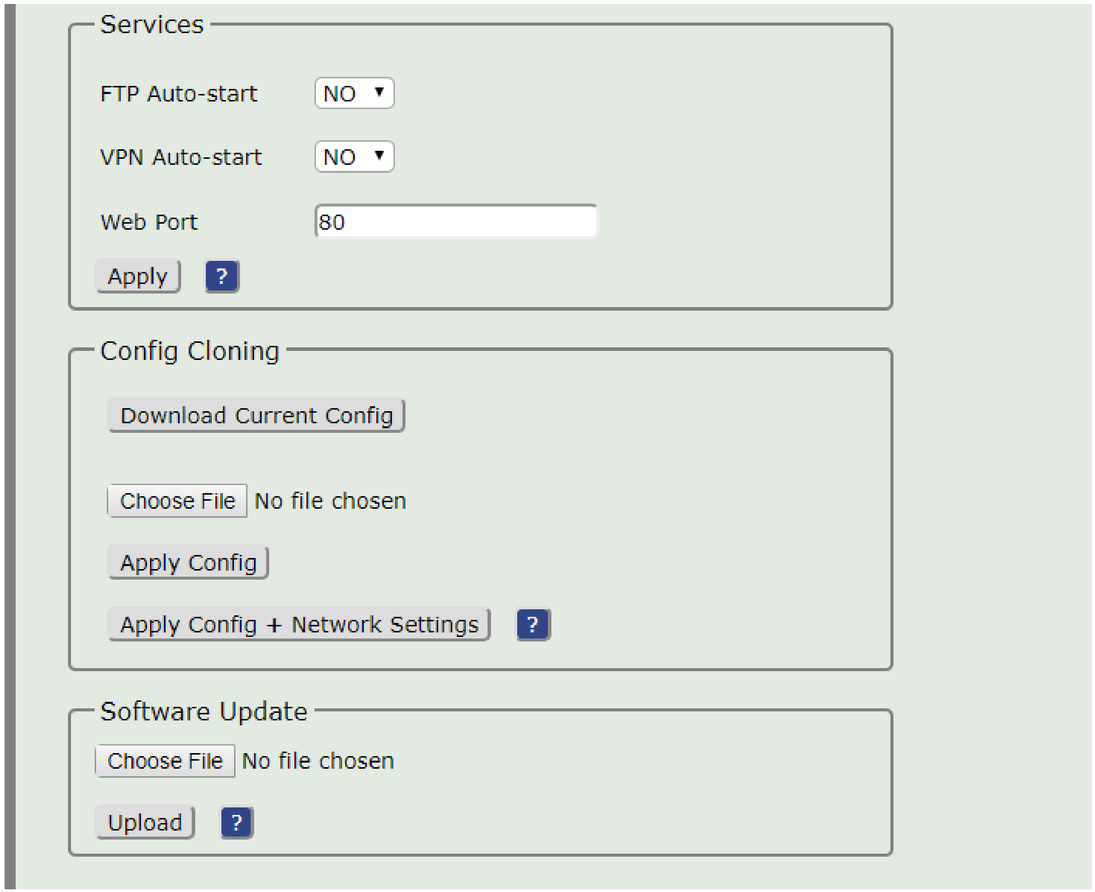
Status Overview



Web Interface[3]

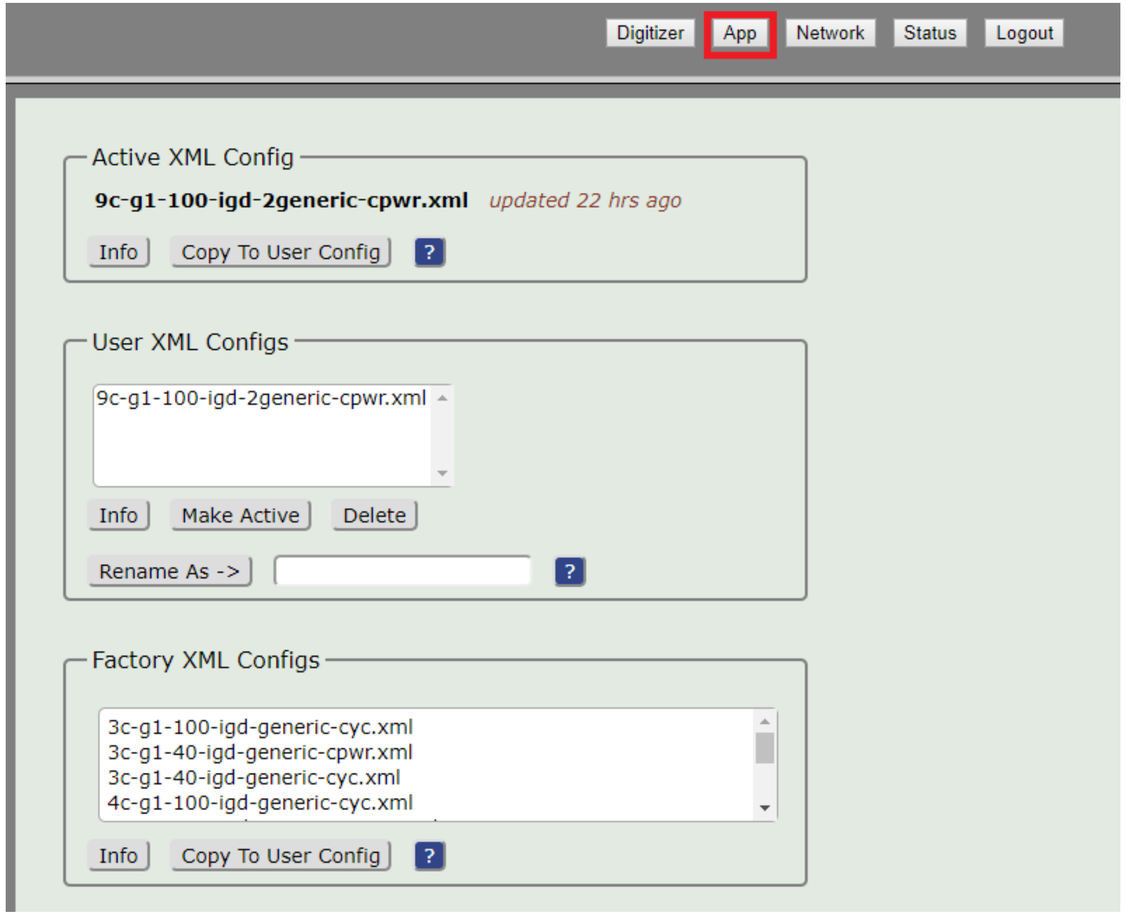
Networking & Admin

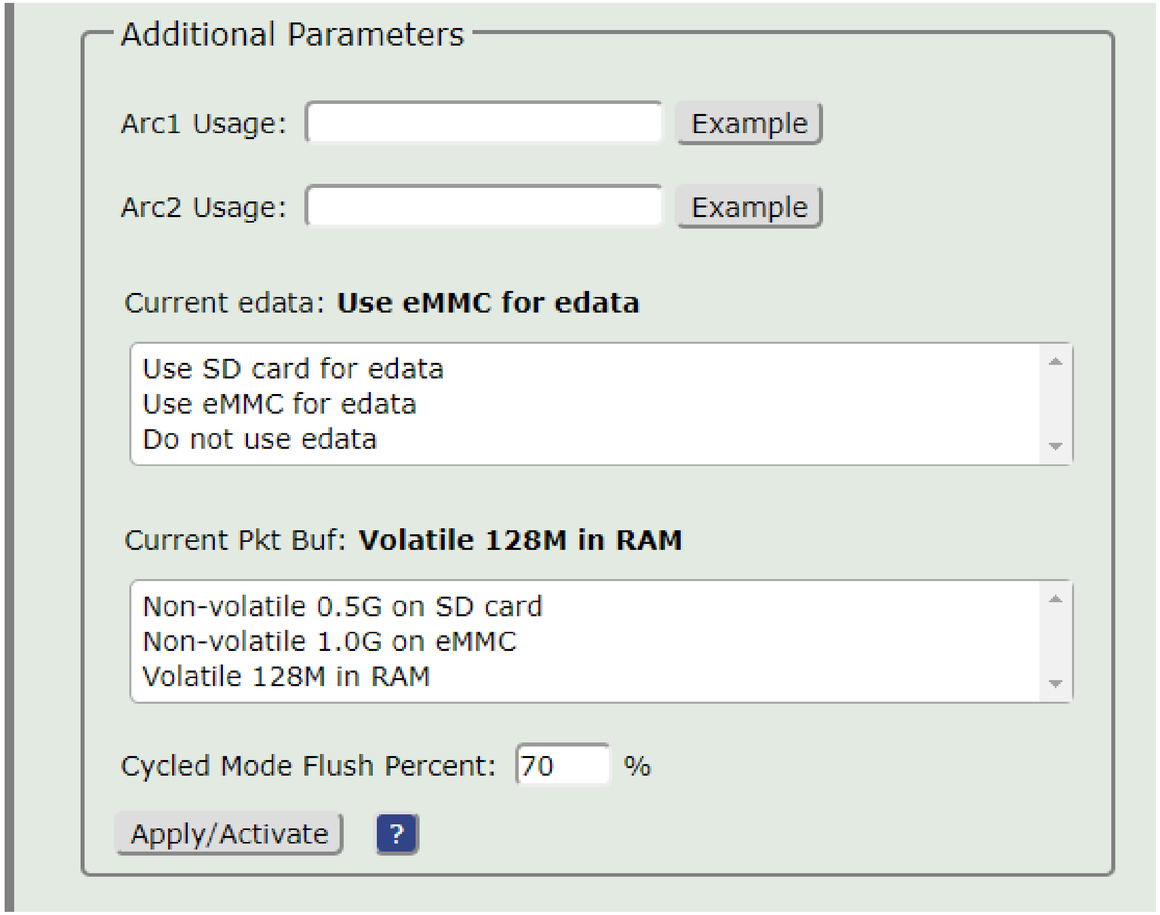




Web Interface[4]

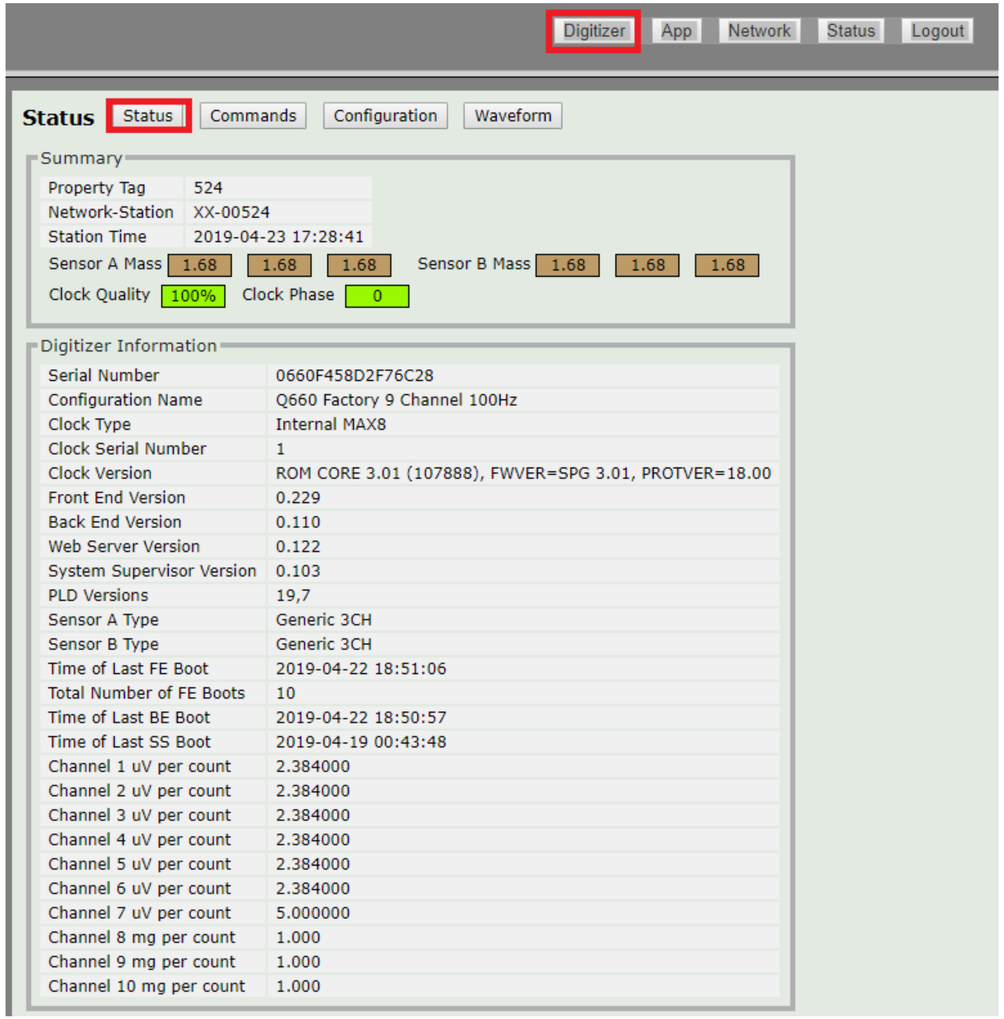
XML configuration and Storage

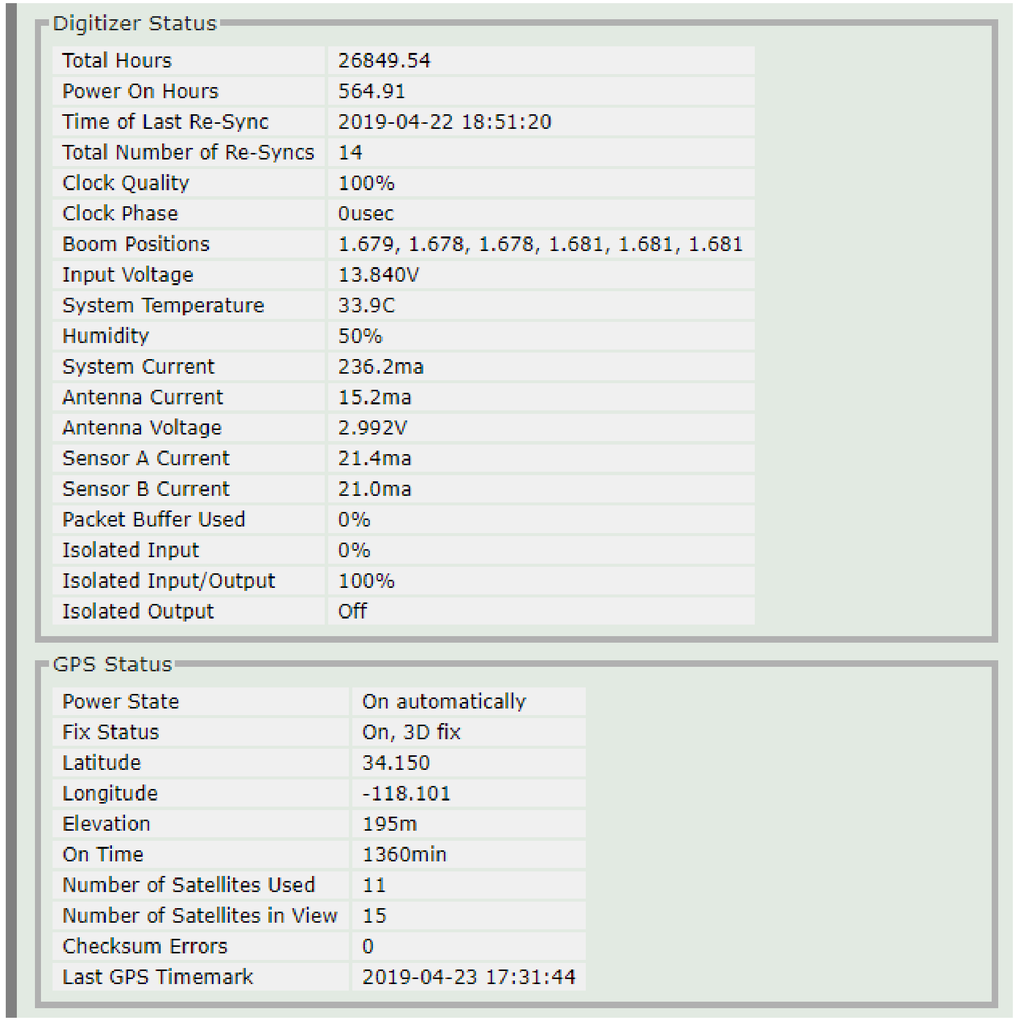




Web Interface[5]

Digitizer Status





Web Interface[6]

Digitizer Status (2)

PLL Status

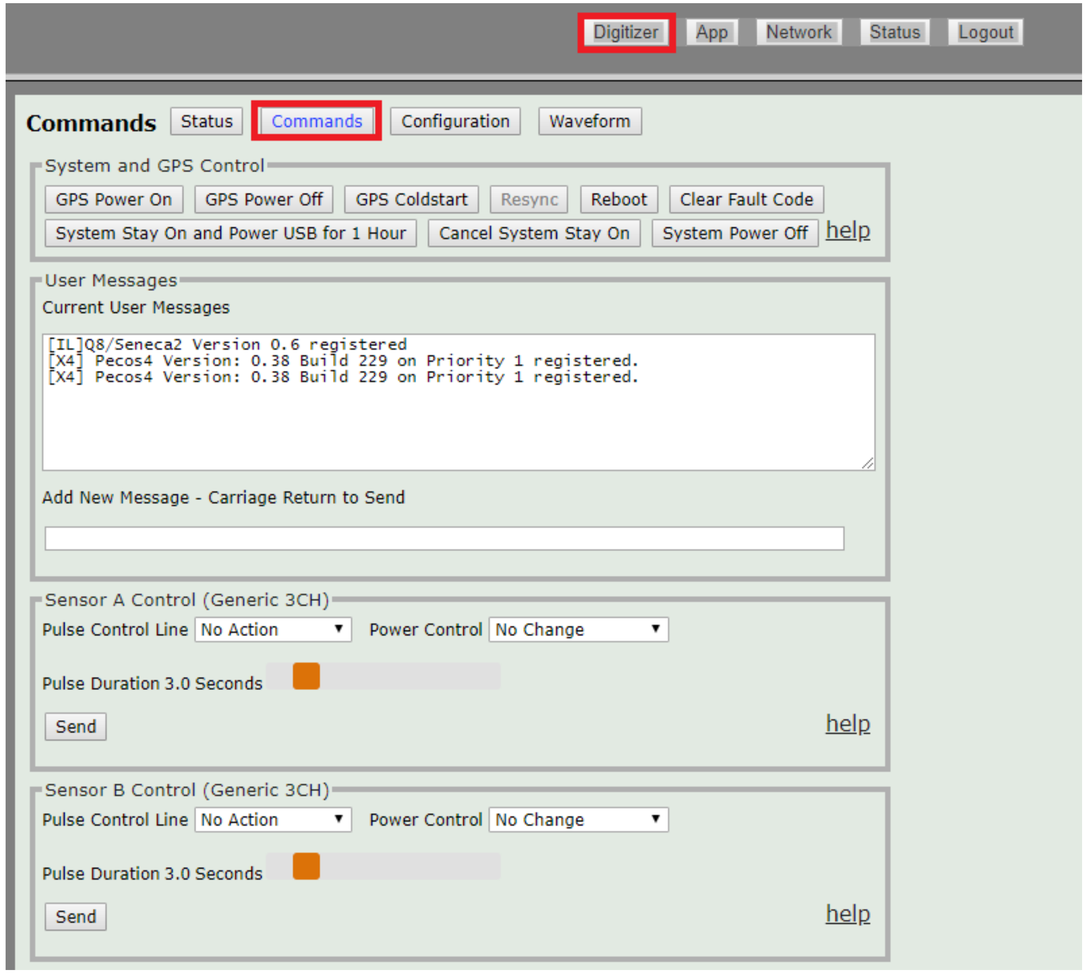
PLL State	Locked
Initial VCO	206.5
Time Error	0.000000
Best VCO	206.48
Seconds since Track or Lock	0.0
VCO Control	206

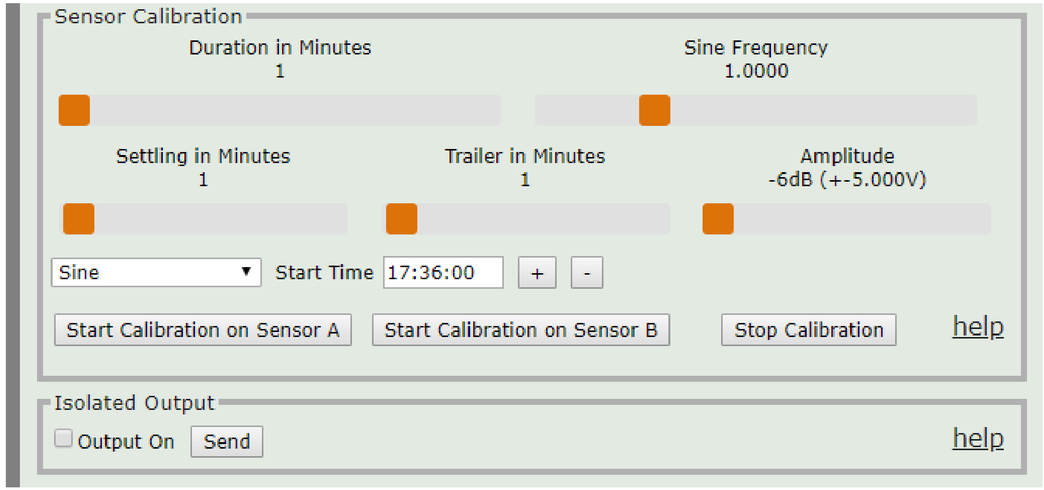
Logger Status

Last Power On	2019-04-22 18:51:14
Number of Power-ups	1
Number of Timeouts	0
Minutes since Activated	1361
Internal Data Logger 1	Q8DL 0.6, Priority 1
Remaining Continuous Ontime	524039 s
Active XML cfg	9c-g1-100-igd-2generic-cpwr.xml
Ethernet IP	10.0.4.40 up
Ethernet MAC	00:d0:69:4d:91:a1
WiFi IP	172.22.22.1 up
Sec since USB power up	85840 s on
IDL MSEED record count	69067
Deep Buffer file count	16
Deep Buffer total size	0.134 GB
Deep Buffer creation time	2019-04-19 00:43:48

Web Interface[7]

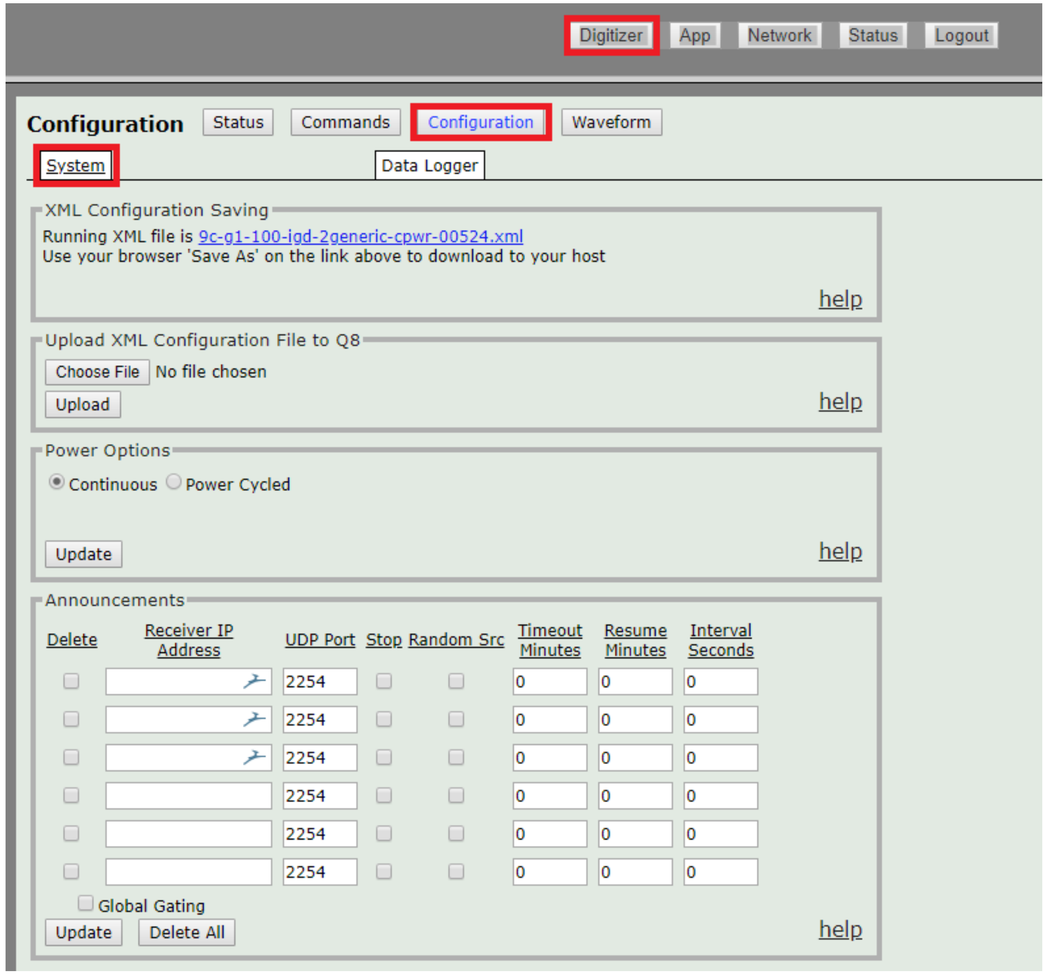
Digitizer Commands

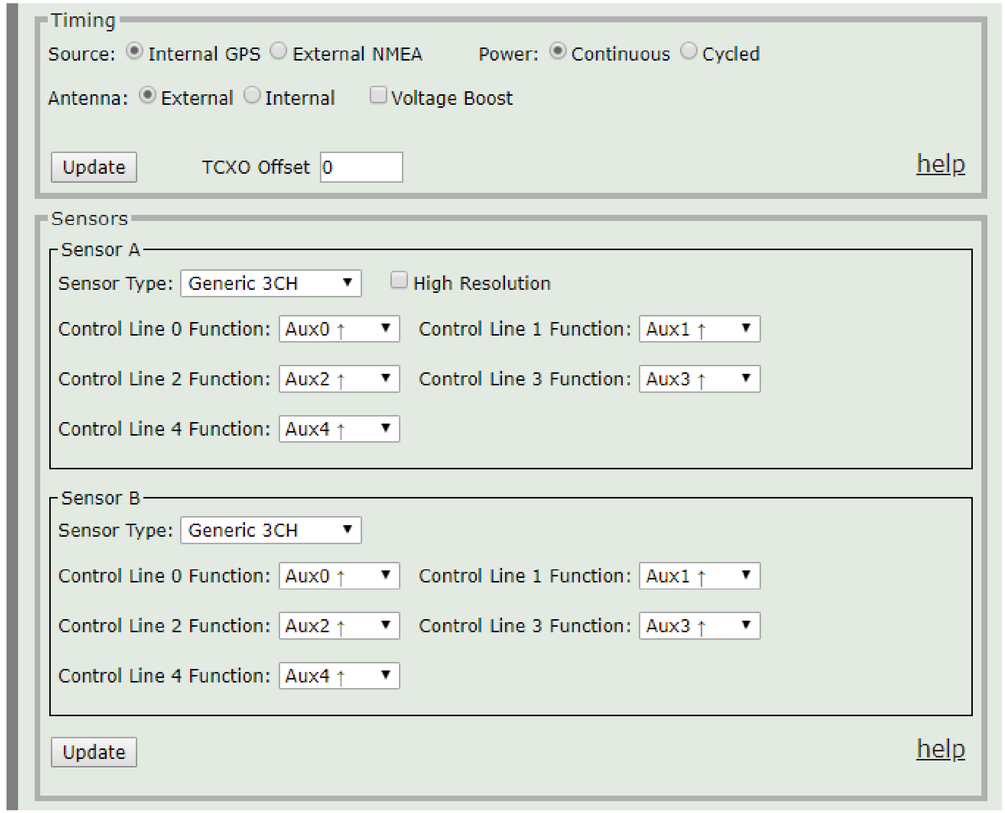




Web Interface[8]

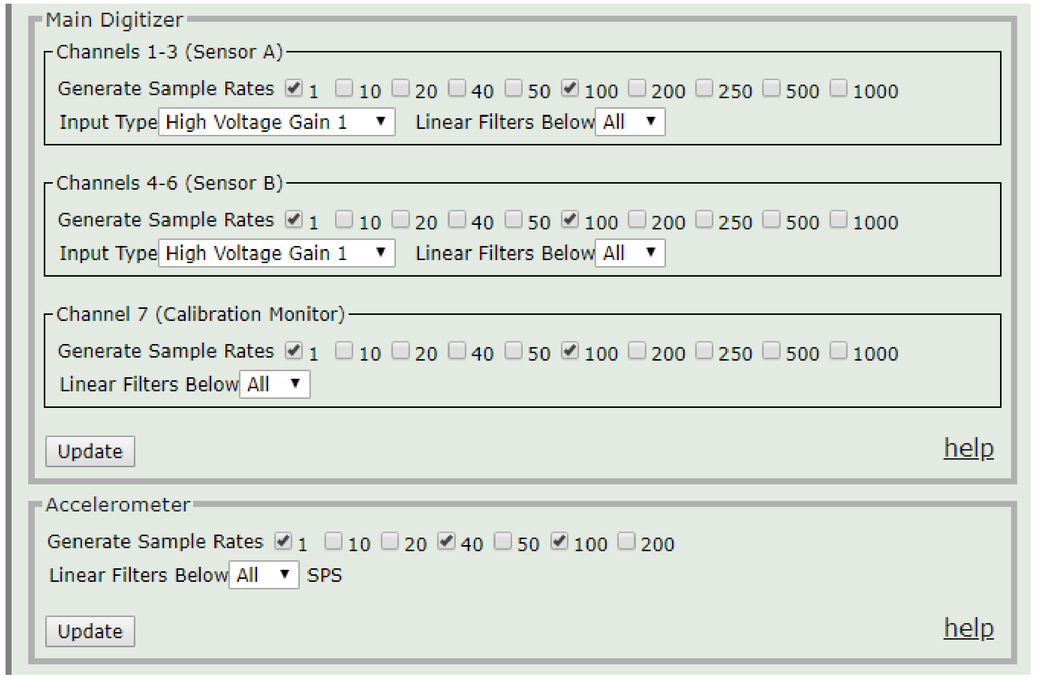
Digitizer Configuration

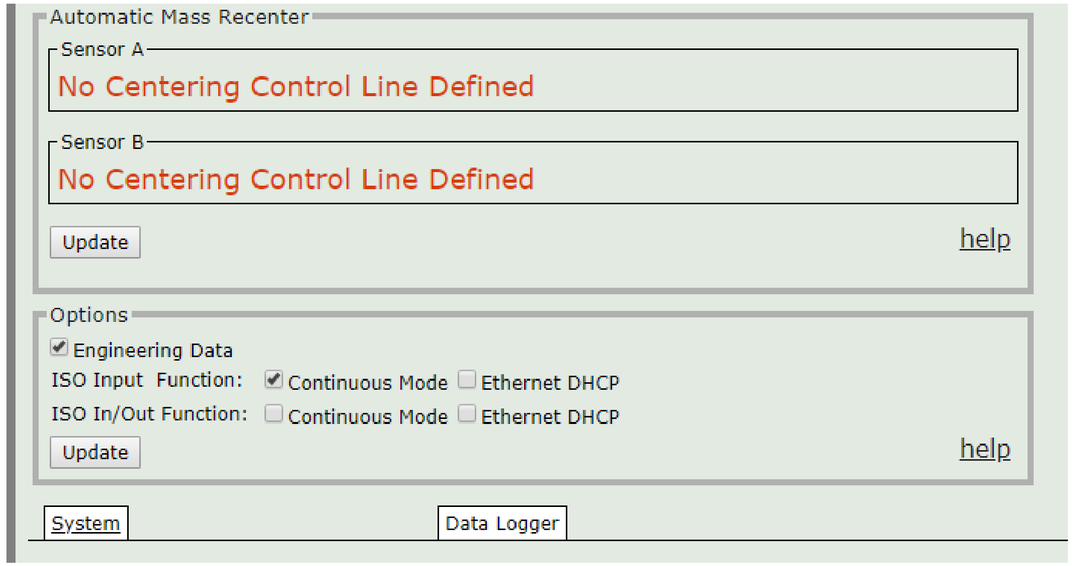




Web Interface 9

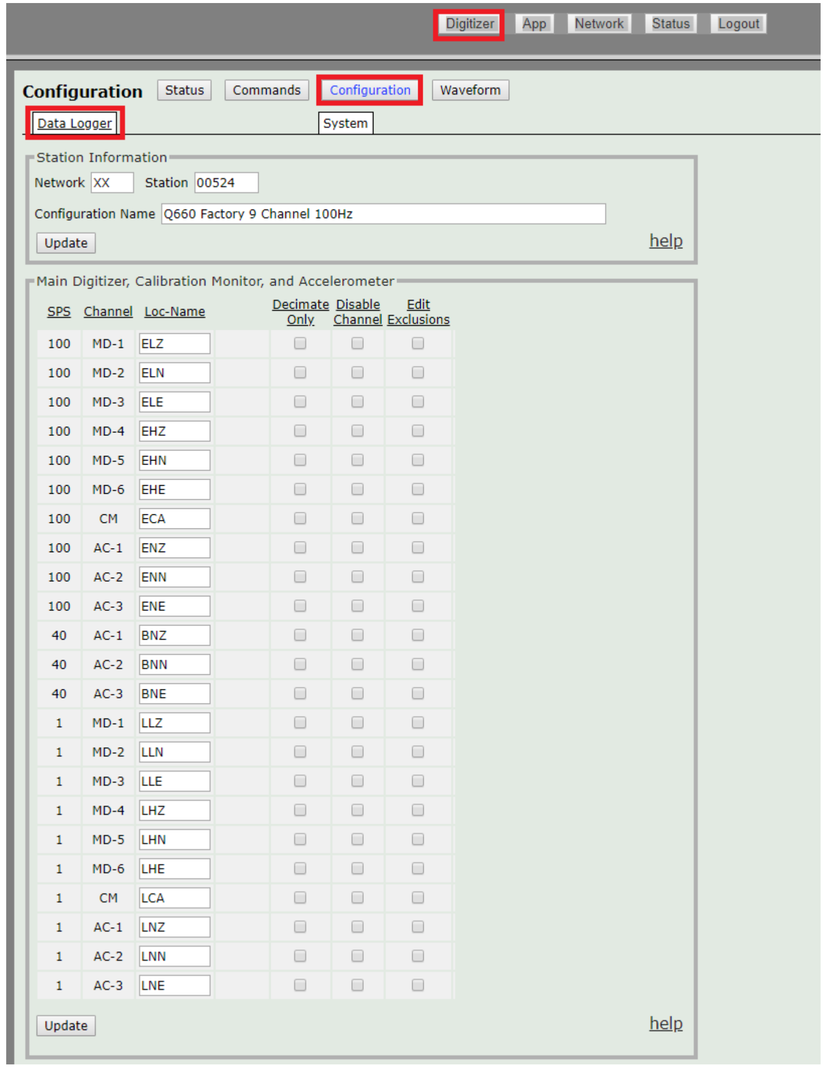
Digitizer Configuration (2)

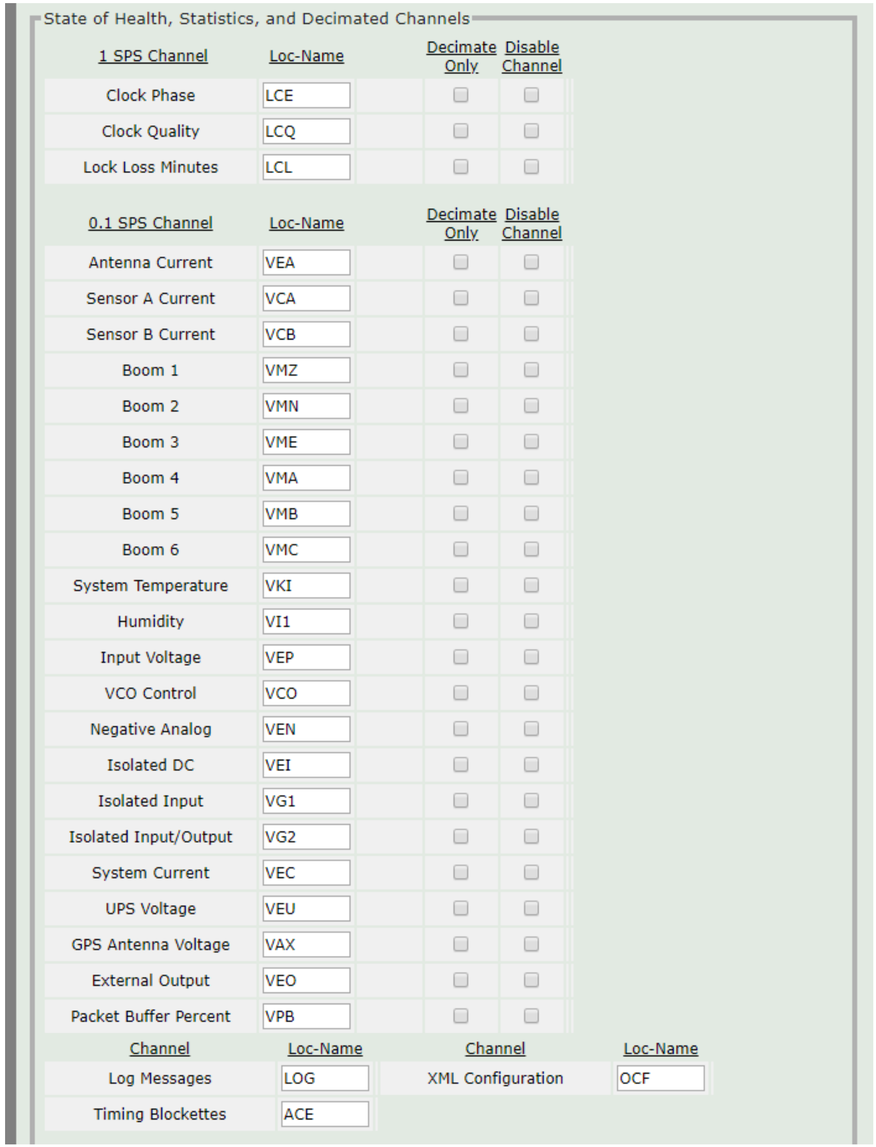




Web Interface[10]

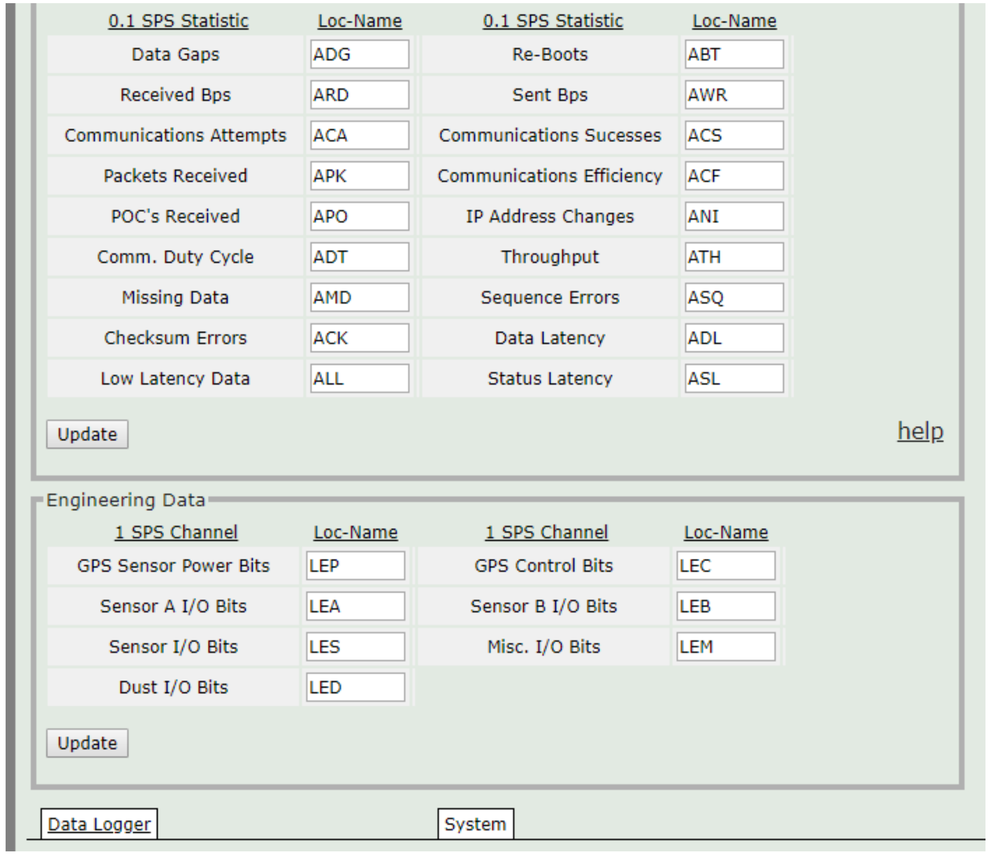
Digitizer Configuration (3)





Web Interface[11]

Digitizer Configuration (4)



0.1 SPS Statistic	Loc-Name	0.1 SPS Statistic	Loc-Name
Data Gaps	ADG	Re-Boots	ABT
Received Bps	ARD	Sent Bps	AWR
Communications Attempts	ACA	Communications Sucesses	ACS
Packets Received	APK	Communications Efficiency	ACF
POC's Received	APO	IP Address Changes	ANI
Comm. Duty Cycle	ADT	Throughput	ATH
Missing Data	AMD	Sequence Errors	ASQ
Checksum Errors	ACK	Data Latency	ADL
Low Latency Data	ALL	Status Latency	ASL

Update

help

Engineering Data

1 SPS Channel	Loc-Name	1 SPS Channel	Loc-Name
GPS Sensor Power Bits	LEP	GPS Control Bits	LEC
Sensor A I/O Bits	LEA	Sensor B I/O Bits	LEB
Sensor I/O Bits	LES	Misc. I/O Bits	LEM
Dust I/O Bits	LED		

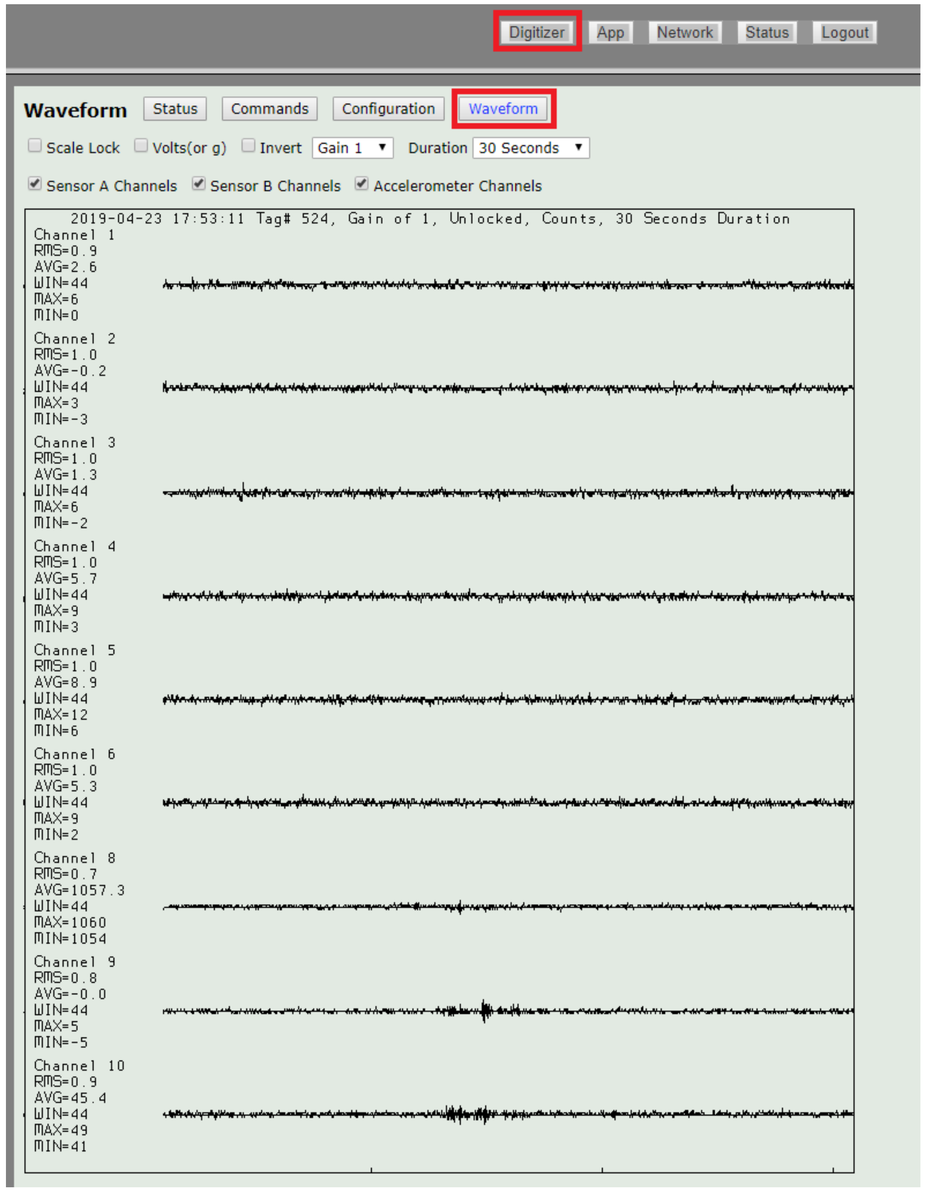
Update

Data Logger

System

Web Interface[12]

Digitizer Waveforms



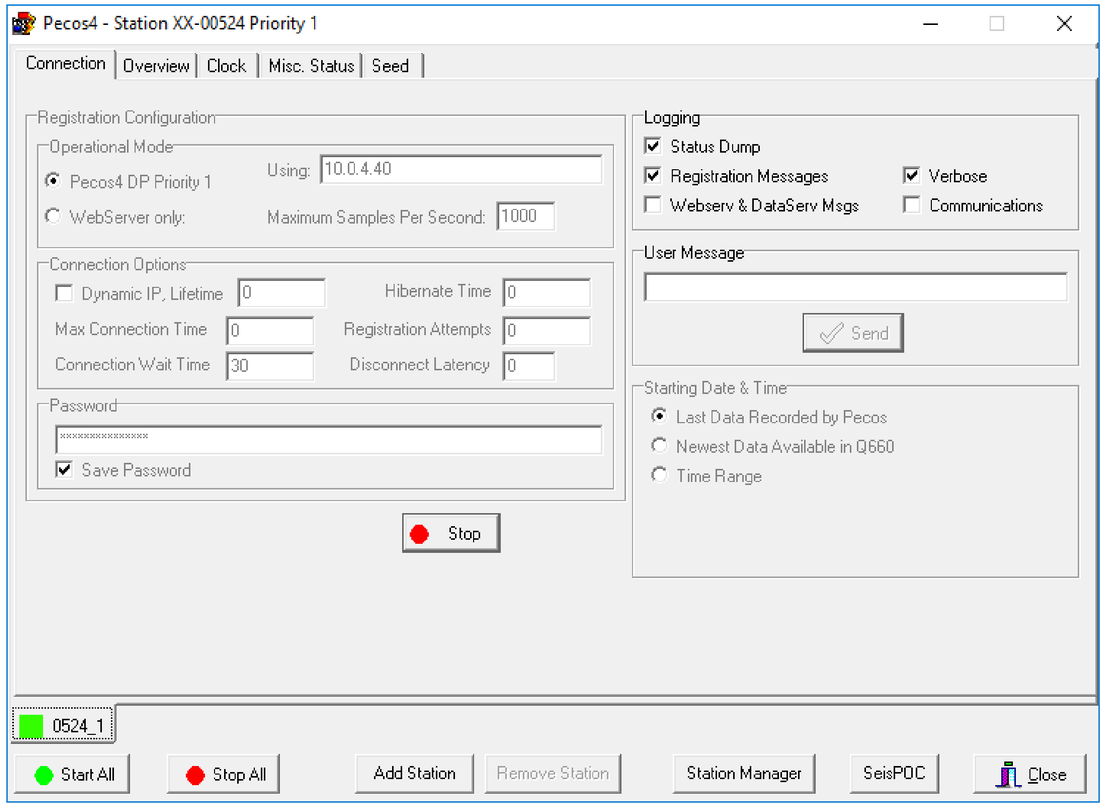
Pecos4

Overview

PC-based replacement for the Pecos2 Software used with the Q330 family.

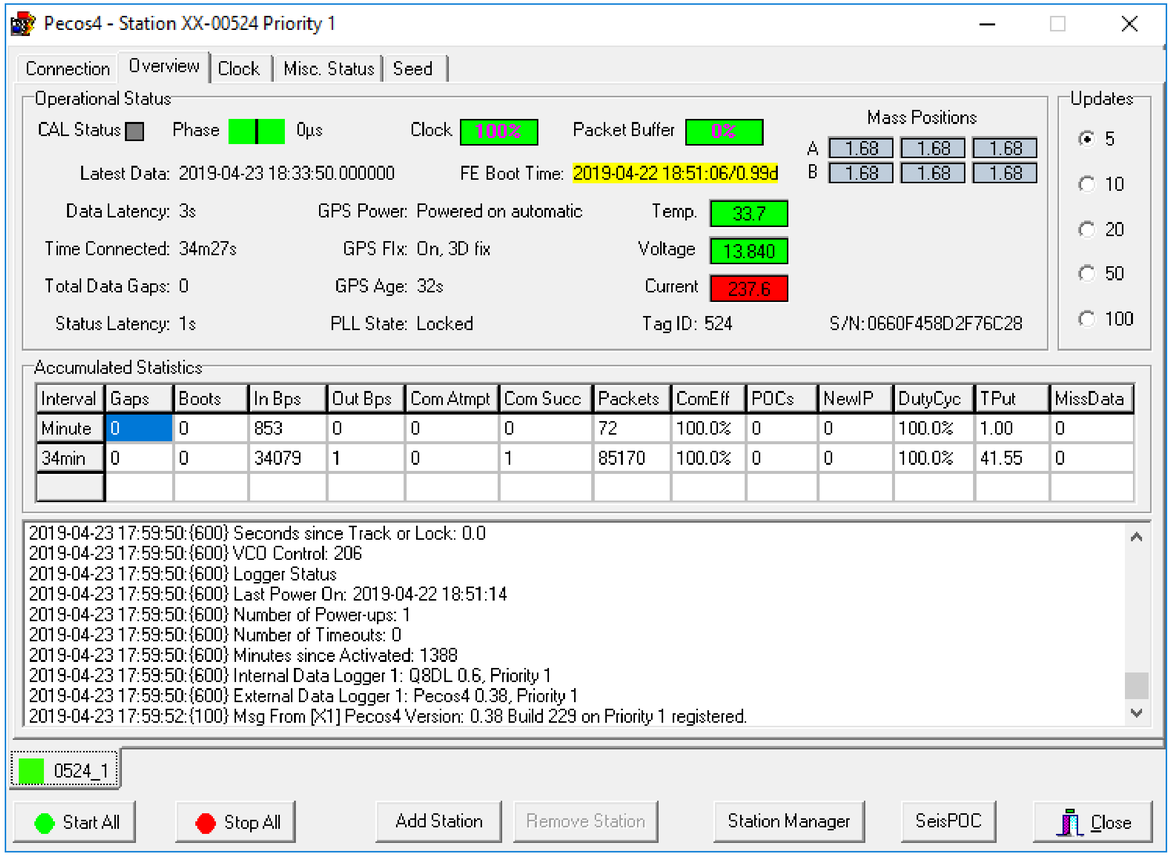
Pecos4[1]

Connections



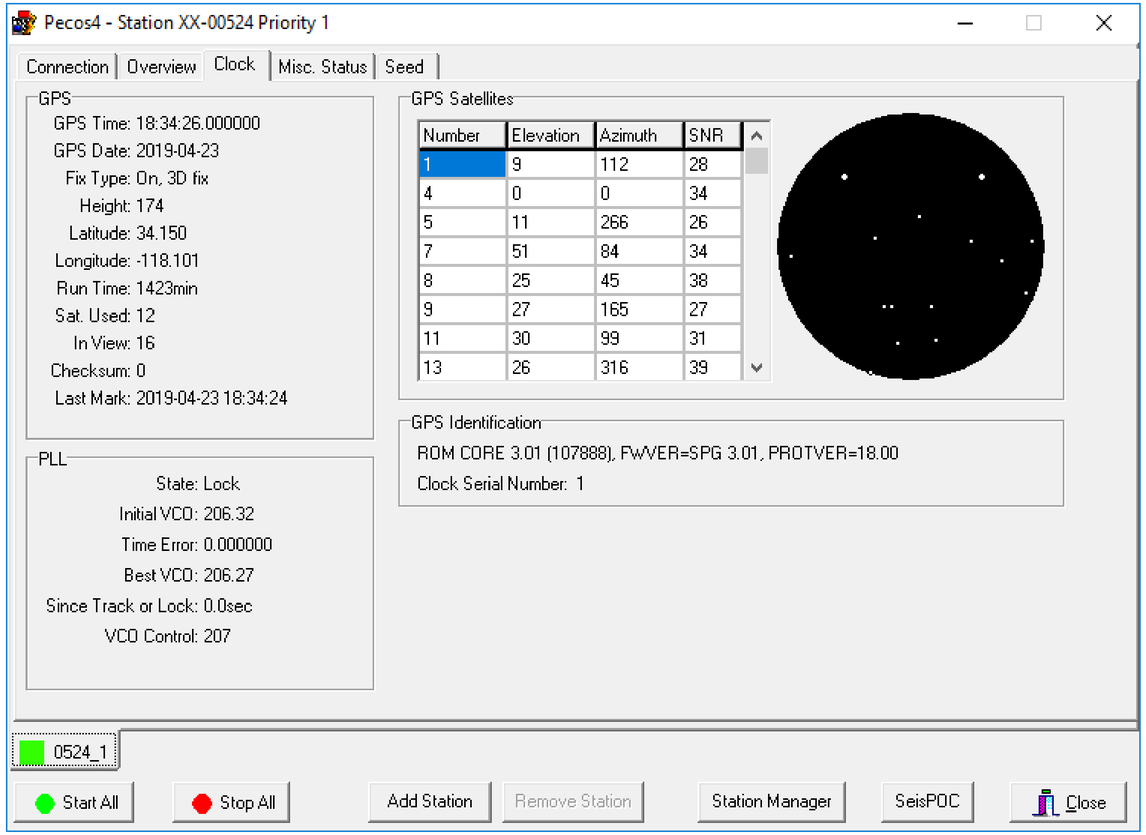
Pecos4^2

Overview



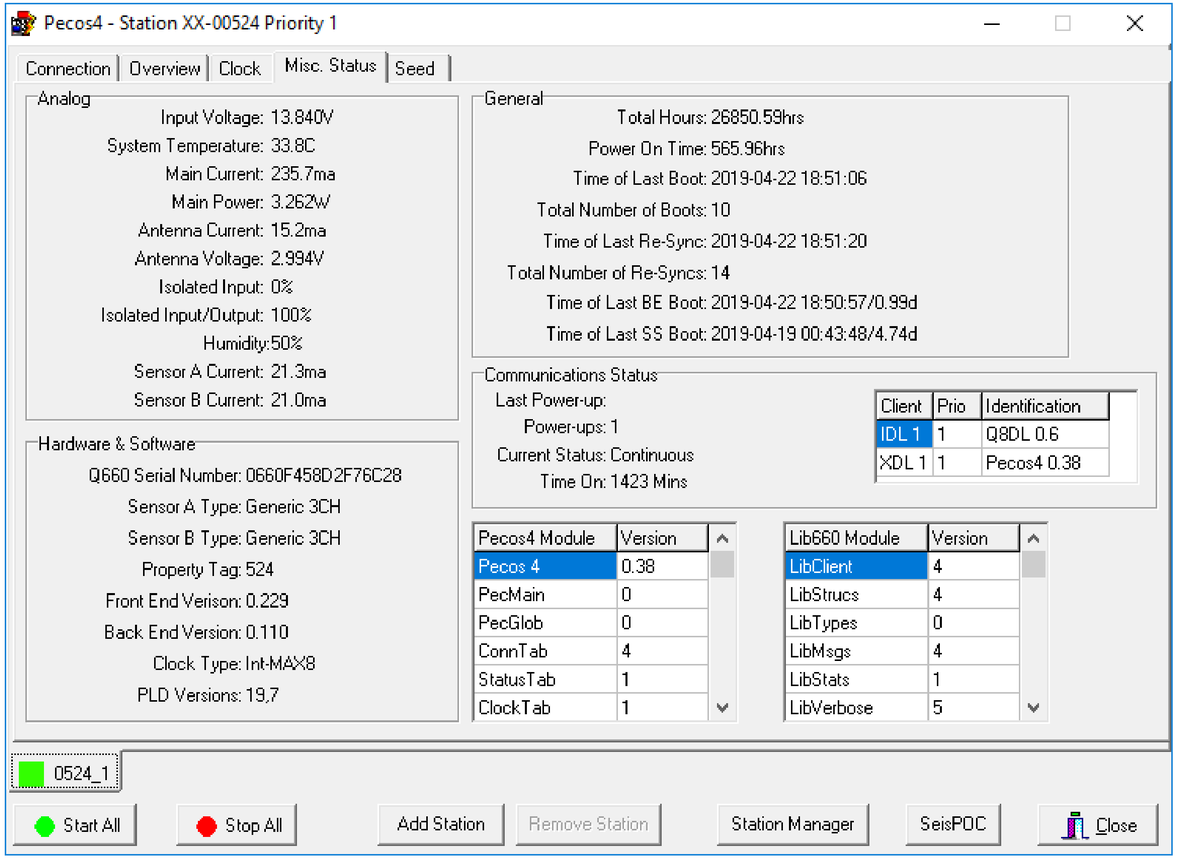
Pecos4^3

Clock



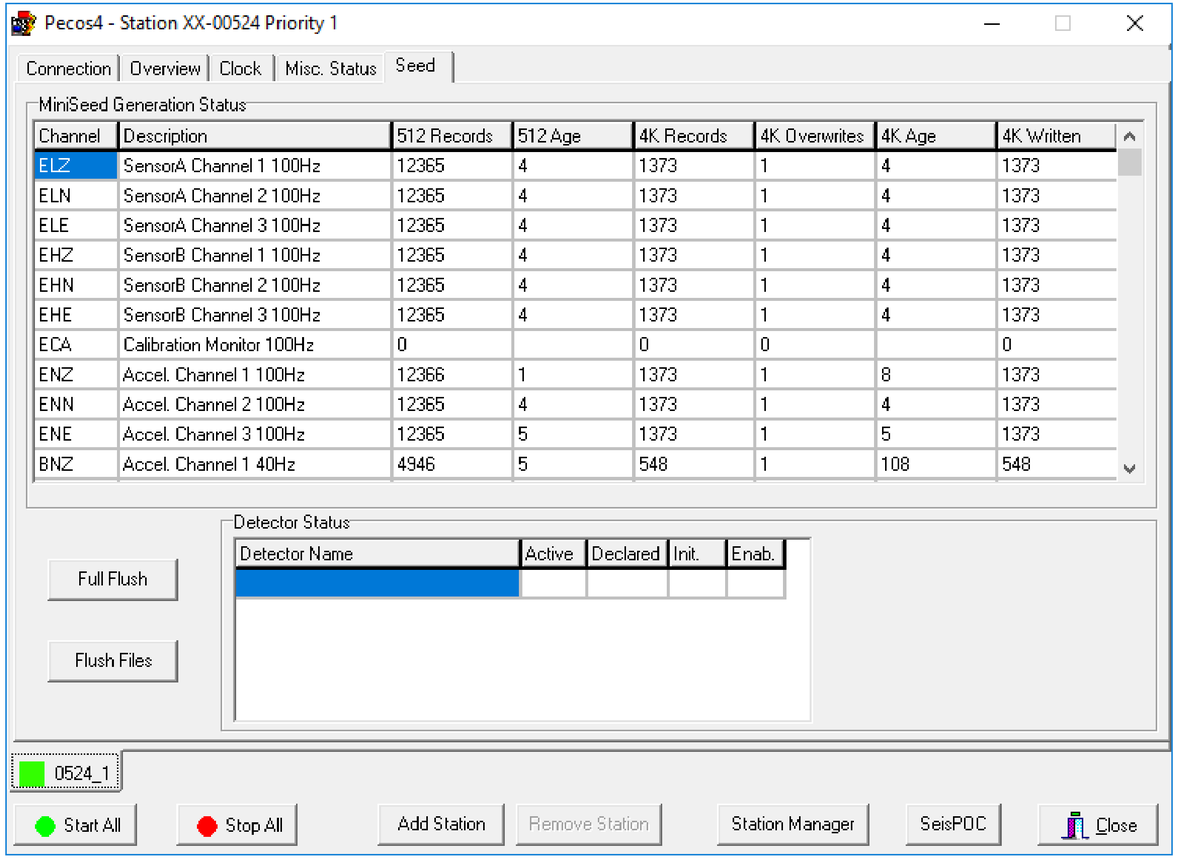
Pecos4[4]

Misc. Status



Pecos4[5]

Seed



Resources

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- wiki.kmi.com
  - visitor, worldcup
- unitdata.kmi.com
  - Instrument and sensor data sheets

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Kinemetrics Datasheet Request Form

Product Type: Etna2

Serial Number 1:

Serial Number 2:

Serial Number 3:

E-mail Address:

Submit

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Network Operation, Denver, Colorado – USA

Headquarters, Streckeisen, Pfungen – Switzerland
Office in Switzerland
Training Center, Vienna – Austria
Network Operation, Italy

Office in Japan

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THANK YOU

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