

Advancement through Innovation

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Mythical Creatures

Antelope/Kinematics User's Group

5/28-5/30, 2019

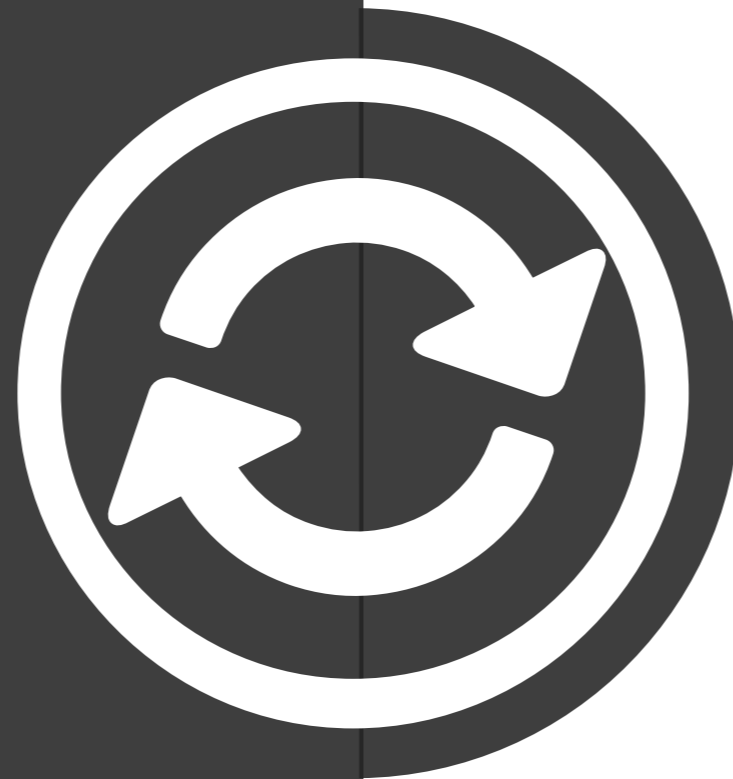
Dennis Pumphrey
Manager, Software Engineering
Kinematics, Inc.



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 $\pm 2g$ 24-bit MEMS Accelerometer separately and synchronously digitized.



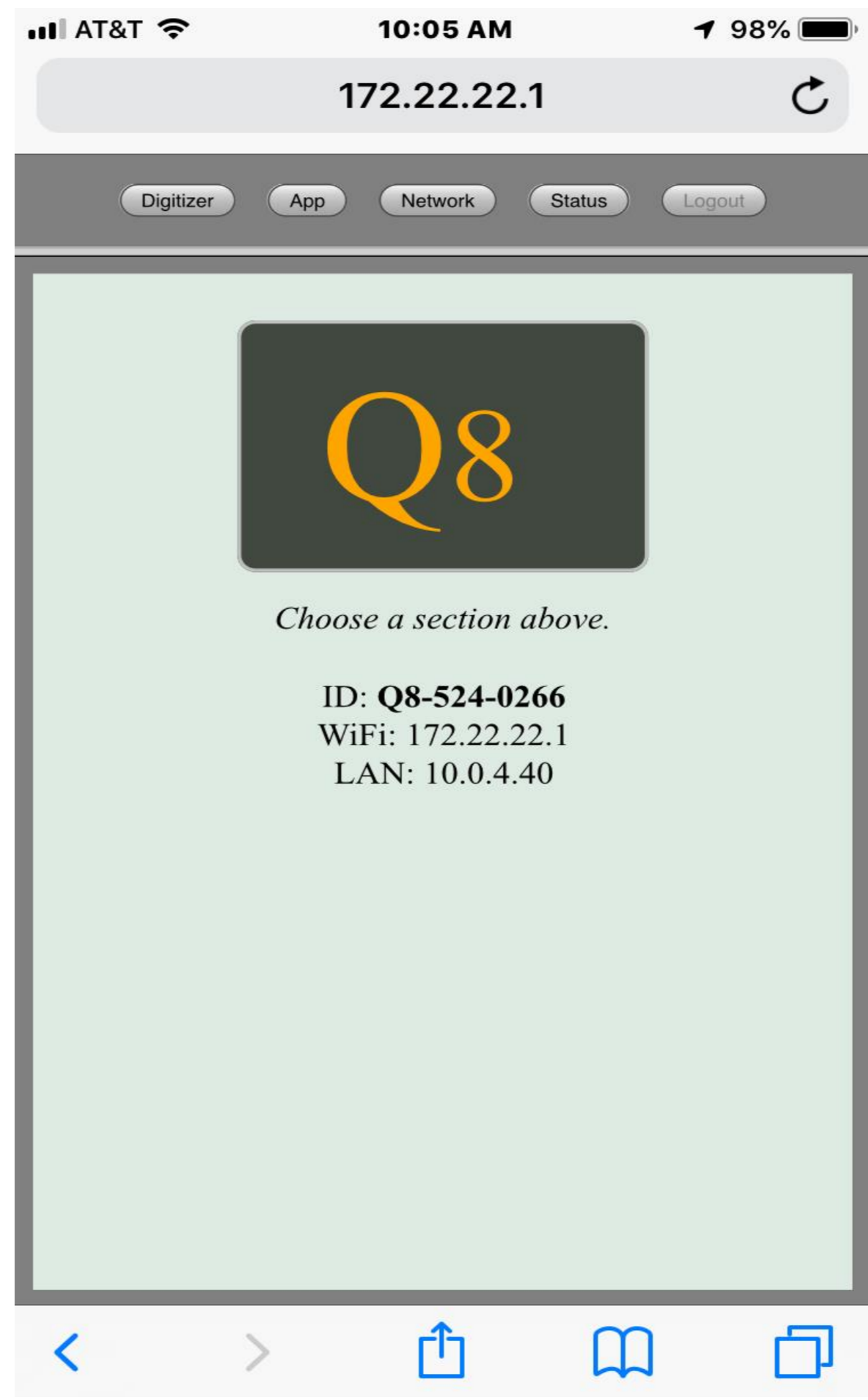
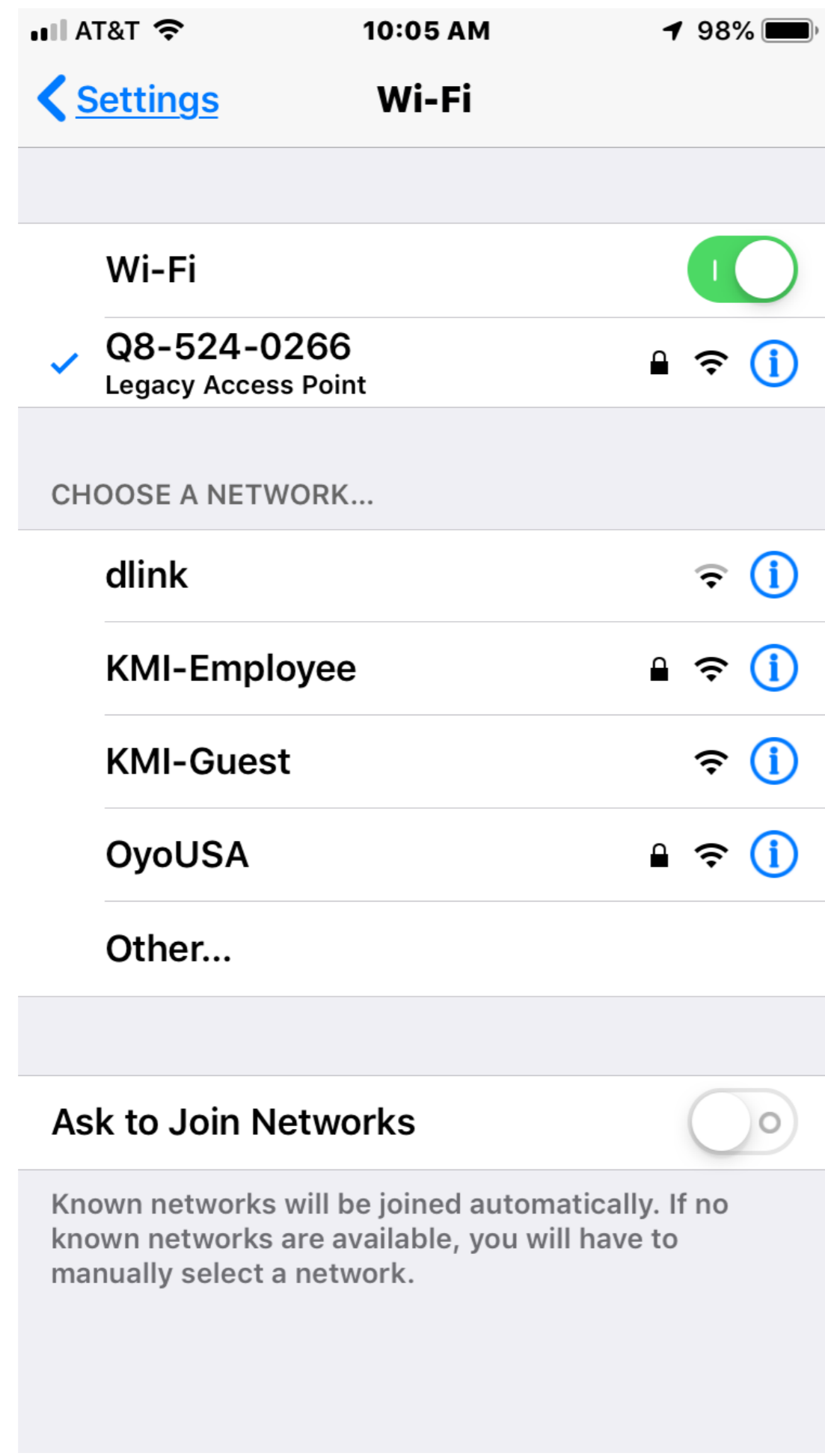
Q8

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



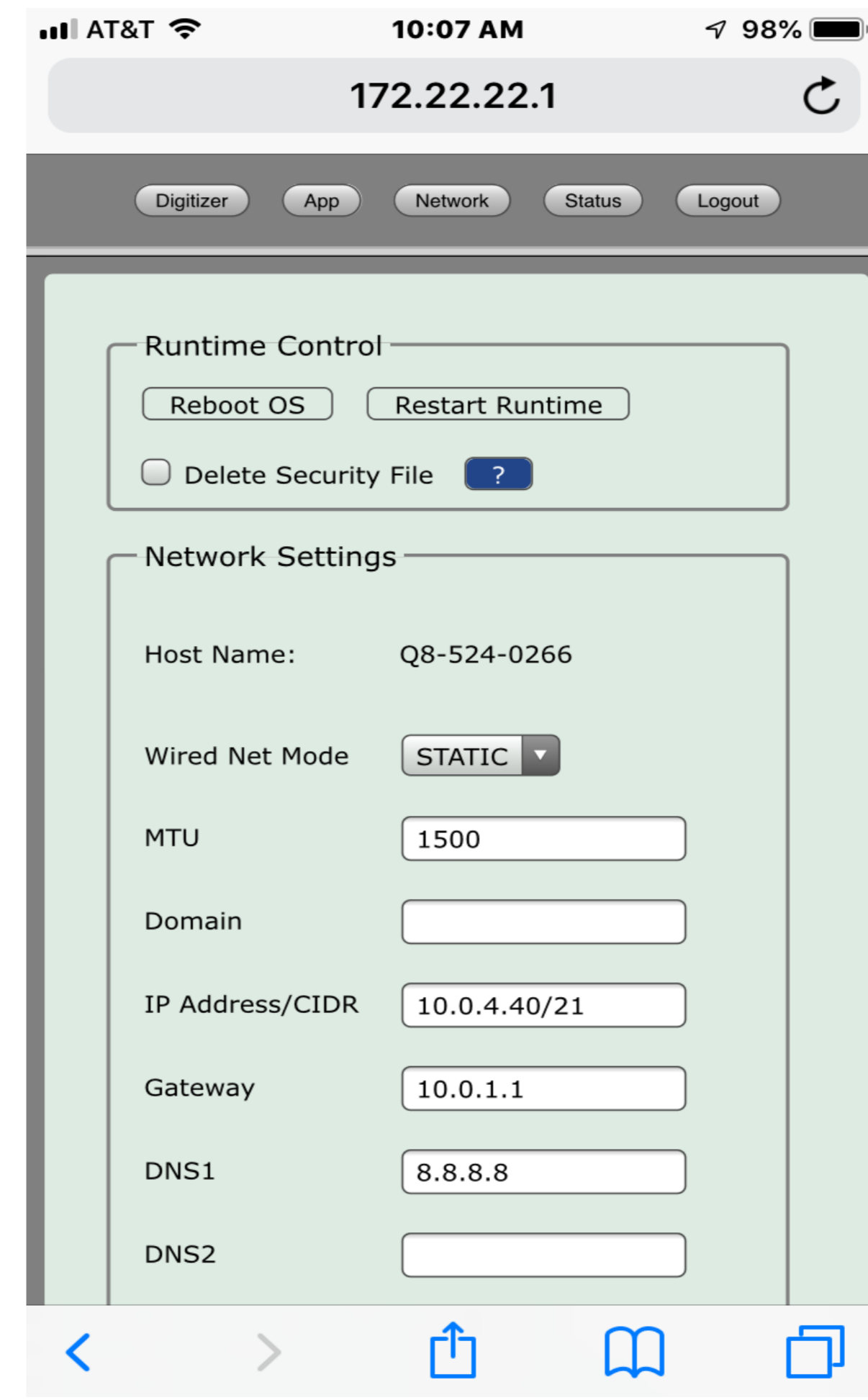
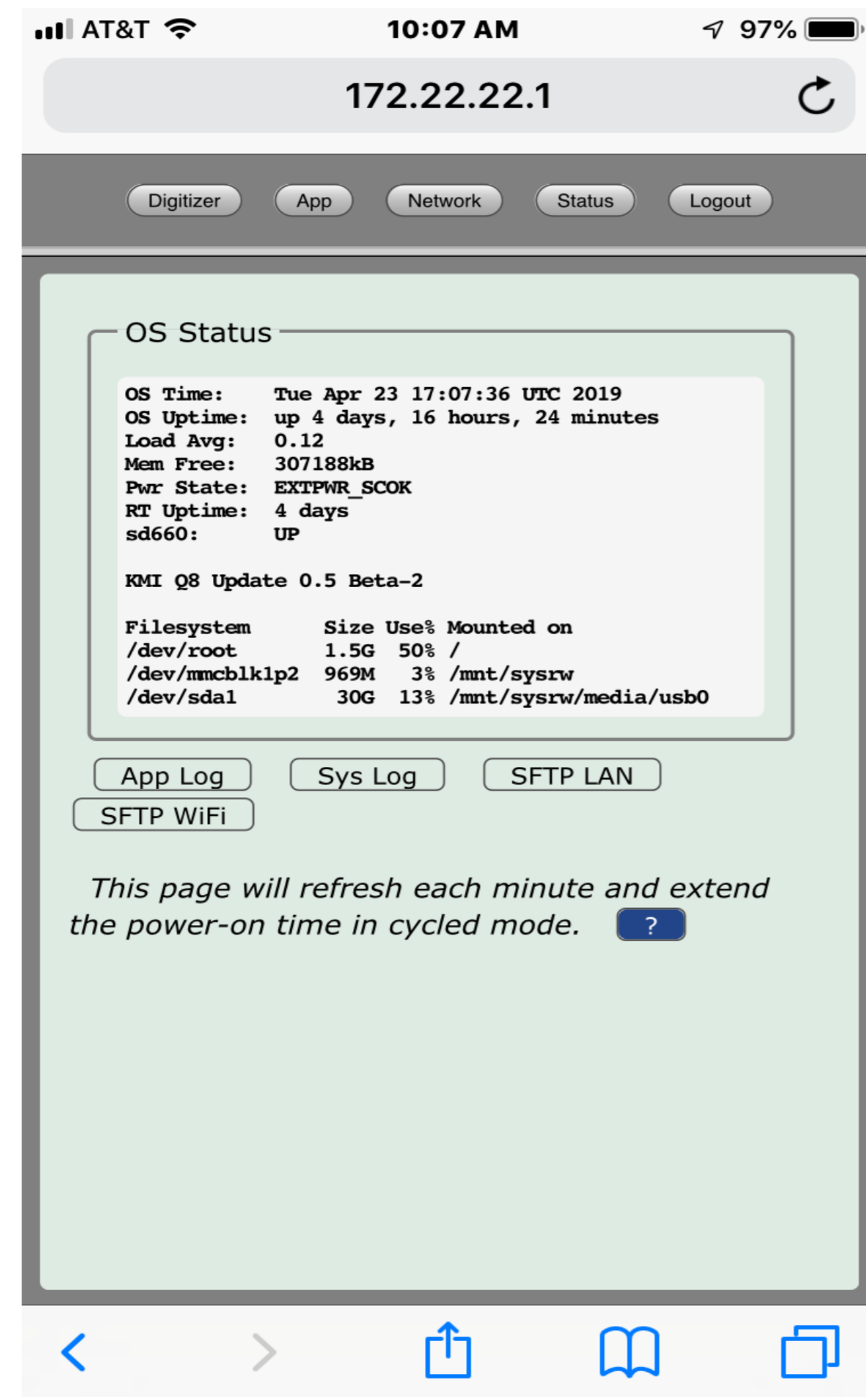
WiFi Access Point¹

Useful for Initial Setup and ongoing Configuration



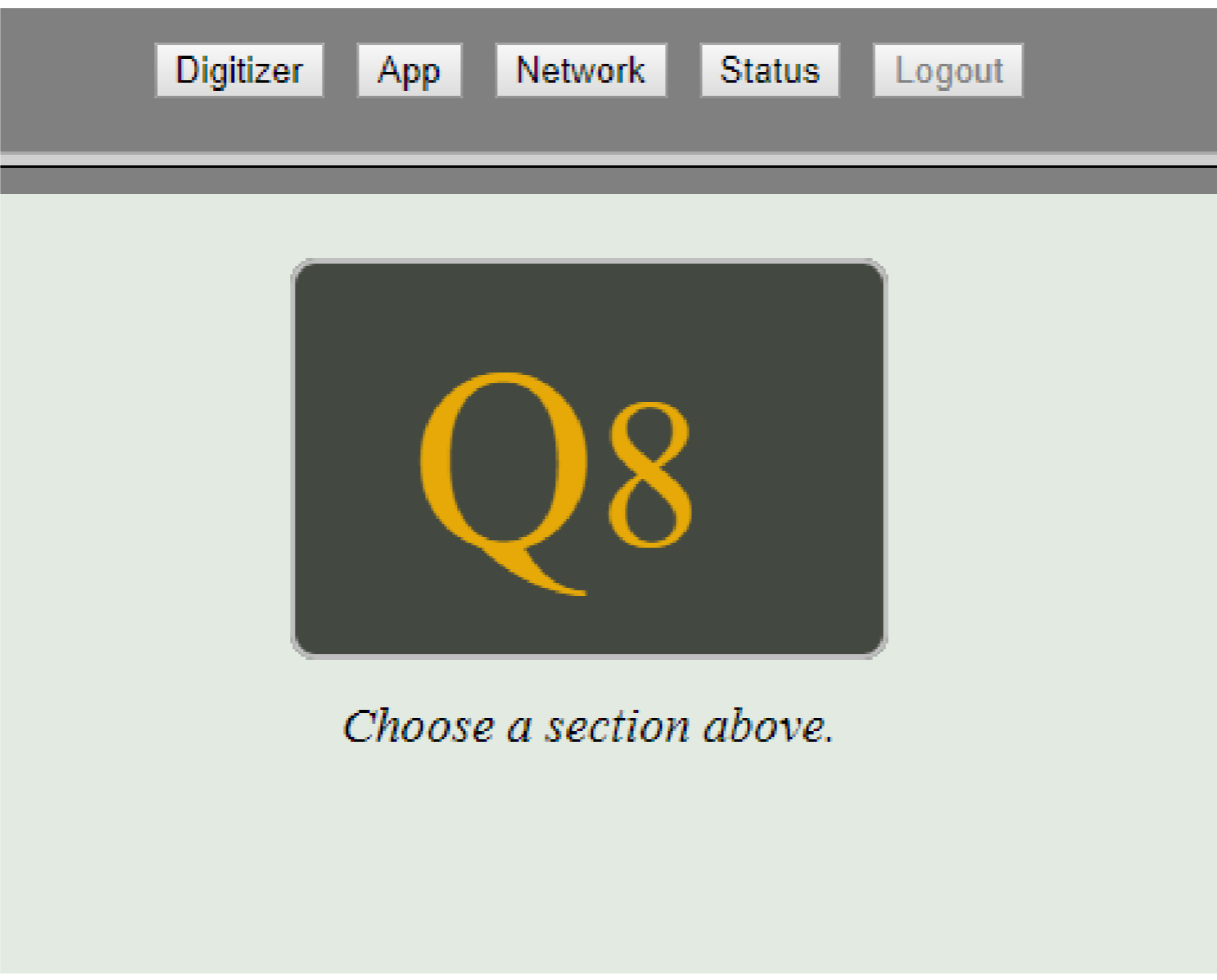
WiFi Access Point²

Useful for Initial Setup and ongoing Configuration



Web Interface¹

Landing Page



Web Interface²

Status Overview

The screenshot shows a web interface with a navigation bar at the top containing buttons for 'Digitizer', 'App', 'Network', 'Status', and 'Logout'. The 'Status' button is highlighted with a red box. Below the navigation bar is a section titled 'OS Status' containing system information:

```
OS Time: Tue Apr 23 17:19:22 UTC 2019
OS Uptime: up 4 days, 16 hours, 36 minutes
Load Avg: 0.04
Mem Free: 305380kB
Pwr State: EXTPWR_SCOK
RT Uptime: 4 days
sd660: UP

KMI Q8 Update 0.5 Beta-2
```

Filesystem	Size	Use%	Mounted on
/dev/root	1.5G	50%	/
/dev/mmcblk1p2	969M	3%	/mnt/sysrw
/dev/sda1	30G	13%	/mnt/sysrw/media/usb0

Below the OS status section are buttons for 'App Log', 'Sys Log', 'SFTP LAN', and 'SFTP WiFi'. At the bottom of the interface, there is a notice: 'This page will refresh each minute and extend the power-on time in cycled mode.' followed by a question mark icon.

Web Interface³

Networking & Admin

Digitizer App **Network** Status Logout

Runtime Control

Reboot OS Restart Runtime

Delete Security File ?

Network Settings

Host Name: Q8-524-0266

Wired Net Mode: STATIC ▾

MTU: 1500

Domain:

IP Address/CIDR: 10.0.4.40/21

Gateway: 10.0.1.1

DNS1: 8.8.8.8

DNS2:

WiFi Forwarding: YES ▾

Trial Make Persistent ?

Services

FTP Auto-start: NO ▾

VPN Auto-start: NO ▾

Web Port: 80

Apply ?

Config Cloning

Download Current Config

Choose File No file chosen

Apply Config

Apply Config + Network Settings ?

Software Update

Choose File No file chosen

Upload ?

Web Interface⁴

XML configuration and Storage

The screenshot shows a web interface with a top navigation bar containing 'Digitizer', 'App' (highlighted with a red box), 'Network', 'Status', and 'Logout'. The main content area is divided into three sections:

- Active XML Config:** Shows '9c-g1-100-igd-2generic-cpwr.xml' with a timestamp 'updated 22 hrs ago'. It includes buttons for 'Info', 'Copy To User Config', and a help icon.
- User XML Configs:** A dropdown menu shows '9c-g1-100-igd-2generic-cpwr.xml'. Below it are buttons for 'Info', 'Make Active', and 'Delete'. A 'Rename As ->' field with a help icon is also present.
- Factory XML Configs:** A list of XML files: '3c-g1-100-igd-generic-cyc.xml', '3c-g1-40-igd-generic-cpwr.xml', '3c-g1-40-igd-generic-cyc.xml', and '4c-g1-100-igd-generic-cyc.xml'. It includes buttons for 'Info', 'Copy To User Config', and a help icon.

The 'Additional Parameters' section contains the following settings:

- Arc1 Usage:** An input field with an 'Example' button.
- Arc2 Usage:** An input field with an 'Example' button.
- Current edata:** Set to 'Use eMMC for edata'. A dropdown menu lists options: 'Use SD card for edata', 'Use eMMC for edata', and 'Do not use edata'.
- Current Pkt Buf:** Set to 'Volatile 128M in RAM'. A dropdown menu lists options: 'Non-volatile 0.5G on SD card', 'Non-volatile 1.0G on eMMC', and 'Volatile 128M in RAM'.
- Cycled Mode Flush Percent:** An input field set to '70' with a '%' symbol.
- Buttons for 'Apply/Activate' and a help icon are at the bottom.

Web Interface⁵

Digitizer Status

Digitizer App Network Status Logout

Status Status Commands Configuration Waveform

Summary

Property Tag	524
Network-Station	XX-00524
Station Time	2019-04-23 17:28:41
Sensor A Mass	1.68 1.68 1.68
Sensor B Mass	1.68 1.68 1.68
Clock Quality	100%
Clock Phase	0

Digitizer Information

Serial Number	0660F458D2F76C28
Configuration Name	Q660 Factory 9 Channel 100Hz
Clock Type	Internal MAX8
Clock Serial Number	1
Clock Version	ROM CORE 3.01 (107888), FWVER=SPG 3.01, PROTVER=18.00
Front End Version	0.229
Back End Version	0.110
Web Server Version	0.122
System Supervisor Version	0.103
PLD Versions	19,7
Sensor A Type	Generic 3CH
Sensor B Type	Generic 3CH
Time of Last FE Boot	2019-04-22 18:51:06
Total Number of FE Boots	10
Time of Last BE Boot	2019-04-22 18:50:57
Time of Last SS Boot	2019-04-19 00:43:48
Channel 1 uV per count	2.384000
Channel 2 uV per count	2.384000
Channel 3 uV per count	2.384000
Channel 4 uV per count	2.384000
Channel 5 uV per count	2.384000
Channel 6 uV per count	2.384000
Channel 7 uV per count	5.000000
Channel 8 mg per count	1.000
Channel 9 mg per count	1.000
Channel 10 mg per count	1.000

Digitizer Status

Total Hours	26849.54
Power On Hours	564.91
Time of Last Re-Sync	2019-04-22 18:51:20
Total Number of Re-Syncs	14
Clock Quality	100%
Clock Phase	0usec
Boom Positions	1.679, 1.678, 1.678, 1.681, 1.681, 1.681
Input Voltage	13.840V
System Temperature	33.9C
Humidity	50%
System Current	236.2ma
Antenna Current	15.2ma
Antenna Voltage	2.992V
Sensor A Current	21.4ma
Sensor B Current	21.0ma
Packet Buffer Used	0%
Isolated Input	0%
Isolated Input/Output	100%
Isolated Output	Off

GPS Status

Power State	On automatically
Fix Status	On, 3D fix
Latitude	34.150
Longitude	-118.101
Elevation	195m
On Time	1360min
Number of Satellites Used	11
Number of Satellites in View	15
Checksum Errors	0
Last GPS Timemark	2019-04-23 17:31:44

Web Interface⁶

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 Interface⁷

Digitizer Commands

The screenshot shows the Digitizer web interface with the 'Digitizer' tab selected. The 'Commands' sub-tab is also selected. The interface is divided into several sections:

- System and GPS Control:** Includes buttons for 'GPS Power On', 'GPS Power Off', 'GPS Coldstart', 'Resync', 'Reboot', 'Clear Fault Code', 'System Stay On and Power USB for 1 Hour', 'Cancel System Stay On', and 'System Power Off'. A 'help' link is also present.
- User Messages:** A text area displaying system messages: '[IL]Q8/Seneca2 Version 0.6 registered', '[X4] Pecos4 Version: 0.38 Build 229 on Priority 1 registered.', and '[X4] Pecos4 Version: 0.38 Build 229 on Priority 1 registered.' Below this is a text input field for 'Add New Message - Carriage Return to Send' and a 'Send' button.
- Sensor A Control (Generic 3CH):** Features dropdown menus for 'Pulse Control Line' (set to 'No Action') and 'Power Control' (set to 'No Change'). A slider for 'Pulse Duration' is set to 3.0 Seconds. A 'Send' button and a 'help' link are included.
- Sensor B Control (Generic 3CH):** Similar to Sensor A, with 'Pulse Control Line' set to 'No Action', 'Power Control' set to 'No Change', and 'Pulse Duration' set to 3.0 Seconds. It also has a 'Send' button and a 'help' link.

The screenshot shows the 'Sensor Calibration' section of the web interface. It contains several sliders and control elements:

- Duration in Minutes:** Slider set to 1.
- Sine Frequency:** Slider set to 1.0000.
- Settling in Minutes:** Slider set to 1.
- Trailer in Minutes:** Slider set to 1.
- Amplitude:** Slider set to -6dB (+-5.000V).
- Waveform Selection:** A dropdown menu currently set to 'Sine'.
- Start Time:** A text input field showing '17:36:00' with '+' and '-' buttons for adjustment.
- Buttons:** 'Start Calibration on Sensor A', 'Start Calibration on Sensor B', and 'Stop Calibration'. A 'help' link is also present.
- Isolated Output:** A checkbox for 'Output On' is currently unchecked, with a 'Send' button and a 'help' link.

Web Interface⁸

Digitizer Configuration

Digitizer App Network Status Logout

Configuration Status Commands Configuration Waveform

System Data Logger

XML Configuration Saving
Running XML file is [9c-g1-100-igd-2generic-cpwr-00524.xml](#)
Use your browser 'Save As' on the link above to download to your host [help](#)

Upload XML Configuration File to Q8
Choose File No file chosen
Upload [help](#)

Power Options
 Continuous Power Cycled
Update [help](#)

Announcements

Delete	Receiver IP Address	UDP Port	Stop	Random	Src	Timeout Minutes	Resume Minutes	Interval Seconds
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0
<input type="checkbox"/>	<input type="text"/>	2254	<input type="checkbox"/>	<input type="checkbox"/>		0	0	0

Global Gating
Update Delete All [help](#)

Timing
Source: Internal GPS External NMEA Power: Continuous Cycled
Antenna: External Internal Voltage Boost
Update TCXO Offset [help](#)

Sensors

Sensor A
Sensor Type: High Resolution
Control Line 0 Function: Control Line 1 Function:
Control Line 2 Function: Control Line 3 Function:
Control Line 4 Function:

Sensor B
Sensor Type:
Control Line 0 Function: Control Line 1 Function:
Control Line 2 Function: Control Line 3 Function:
Control Line 4 Function:

Update [help](#)

Web Interface⁹

Digitizer Configuration (2)

Main Digitizer

Channels 1-3 (Sensor A)

Generate Sample Rates 1 10 20 40 50 100 200 250 500 1000

Input Type Linear Filters Below

Channels 4-6 (Sensor B)

Generate Sample Rates 1 10 20 40 50 100 200 250 500 1000

Input Type Linear Filters Below

Channel 7 (Calibration Monitor)

Generate Sample Rates 1 10 20 40 50 100 200 250 500 1000

Linear Filters Below

[help](#)

Accelerometer

Generate Sample Rates 1 10 20 40 50 100 200

Linear Filters Below SPS

[help](#)

Automatic Mass Recenter

Sensor A

No Centering Control Line Defined

Sensor B

No Centering Control Line Defined

[help](#)

Options

Engineering Data

ISO Input Function: Continuous Mode Ethernet DHCP

ISO In/Out Function: Continuous Mode Ethernet DHCP

[help](#)

Web Interface¹⁰

Digitizer Configuration (3)

Digitizer App Network Status Logout

Configuration Status Commands Configuration Waveform

Data Logger System

Station Information
 Network XX Station 00524
 Configuration Name Q660 Factory 9 Channel 100Hz
 Update help

Main Digitizer, Calibration Monitor, and Accelerometer

SPS	Channel	Loc-Name	Decimate Only	Disable Channel	Edit Exclusions
100	MD-1	ELZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	MD-2	ELN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	MD-3	ELE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	MD-4	EHZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	MD-5	EHN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	MD-6	EHE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	CM	ECA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	AC-1	ENZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	AC-2	ENN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	AC-3	ENE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	AC-1	BNZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	AC-2	BNN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	AC-3	BNE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-1	LLZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-2	LLN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-3	LLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-4	LHZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-5	LHN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	MD-6	LHE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	CM	LCA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	AC-1	LNZ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	AC-2	LNN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	AC-3	LNE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Update help

State of Health, Statistics, and Decimated Channels

1 SPS Channel	Loc-Name	Decimate Only	Disable Channel
Clock Phase	LCE	<input type="checkbox"/>	<input type="checkbox"/>
Clock Quality	LCQ	<input type="checkbox"/>	<input type="checkbox"/>
Lock Loss Minutes	LCL	<input type="checkbox"/>	<input type="checkbox"/>

0.1 SPS Channel	Loc-Name	Decimate Only	Disable Channel
Antenna Current	VEA	<input type="checkbox"/>	<input type="checkbox"/>
Sensor A Current	VCA	<input type="checkbox"/>	<input type="checkbox"/>
Sensor B Current	VCB	<input type="checkbox"/>	<input type="checkbox"/>
Boom 1	VMZ	<input type="checkbox"/>	<input type="checkbox"/>
Boom 2	VMN	<input type="checkbox"/>	<input type="checkbox"/>
Boom 3	VME	<input type="checkbox"/>	<input type="checkbox"/>
Boom 4	VMA	<input type="checkbox"/>	<input type="checkbox"/>
Boom 5	VMB	<input type="checkbox"/>	<input type="checkbox"/>
Boom 6	VMC	<input type="checkbox"/>	<input type="checkbox"/>
System Temperature	VKI	<input type="checkbox"/>	<input type="checkbox"/>
Humidity	VI1	<input type="checkbox"/>	<input type="checkbox"/>
Input Voltage	VEP	<input type="checkbox"/>	<input type="checkbox"/>
VCO Control	VCO	<input type="checkbox"/>	<input type="checkbox"/>
Negative Analog	VEN	<input type="checkbox"/>	<input type="checkbox"/>
Isolated DC	VEI	<input type="checkbox"/>	<input type="checkbox"/>
Isolated Input	VG1	<input type="checkbox"/>	<input type="checkbox"/>
Isolated Input/Output	VG2	<input type="checkbox"/>	<input type="checkbox"/>
System Current	VEC	<input type="checkbox"/>	<input type="checkbox"/>
UPS Voltage	VEU	<input type="checkbox"/>	<input type="checkbox"/>
GPS Antenna Voltage	VAX	<input type="checkbox"/>	<input type="checkbox"/>
External Output	VEO	<input type="checkbox"/>	<input type="checkbox"/>
Packet Buffer Percent	VPB	<input type="checkbox"/>	<input type="checkbox"/>

Channel	Loc-Name	Channel	Loc-Name
Log Messages	LOG	XML Configuration	OCF
Timing Brackettes	ACE		

Web Interface¹¹

Digitizer Configuration (4)

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

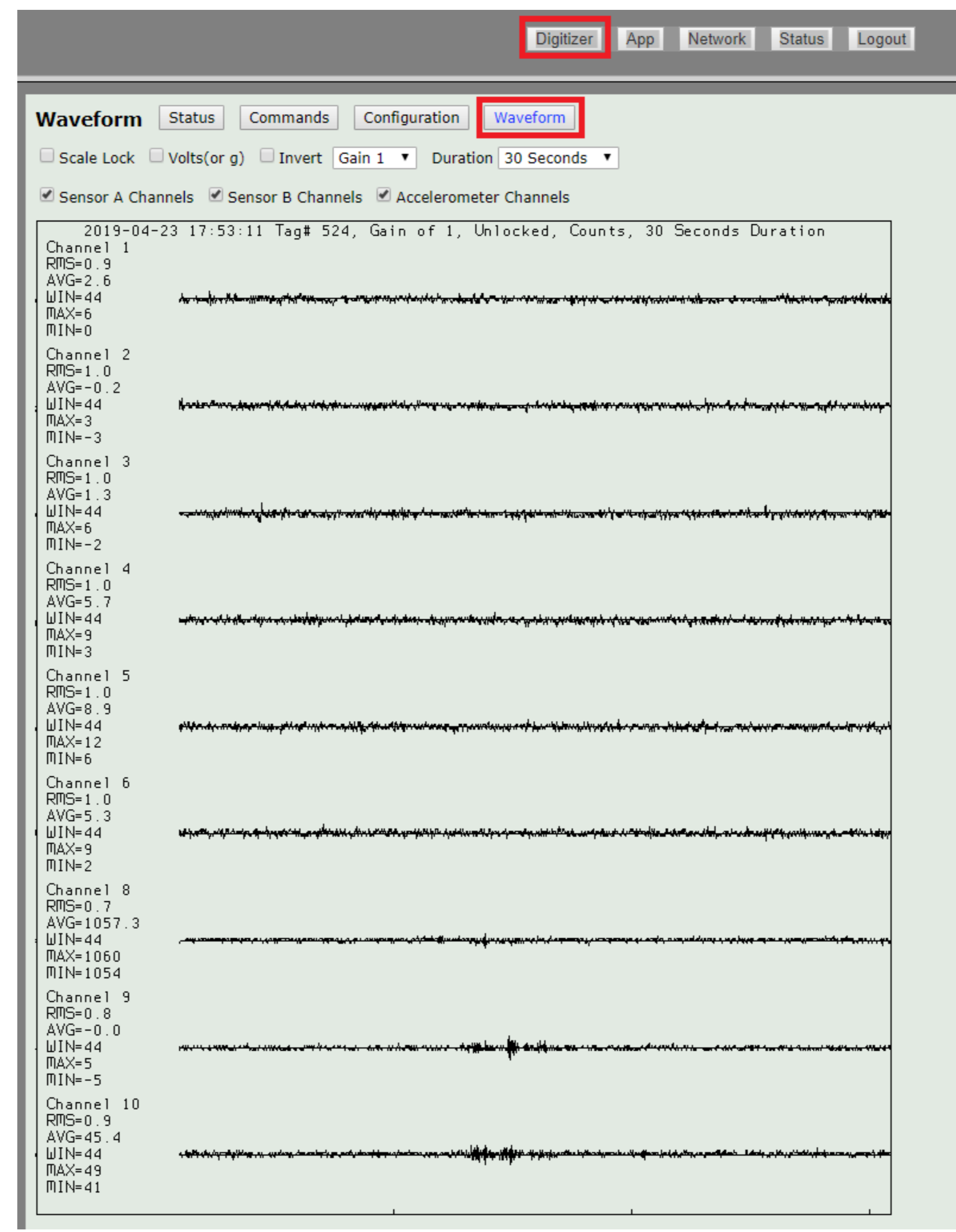
[help](#)

Engineering Data

<u>1 SPS Channel</u>	<u>Loc-Name</u>	<u>1 SPS Channel</u>	<u>Loc-Name</u>
GPS Sensor Power Bits	<input type="text" value="LEP"/>	GPS Control Bits	<input type="text" value="LEC"/>
Sensor A I/O Bits	<input type="text" value="LEA"/>	Sensor B I/O Bits	<input type="text" value="LEB"/>
Sensor I/O Bits	<input type="text" value="LES"/>	Misc. I/O Bits	<input type="text" value="LEM"/>
Dust I/O Bits	<input type="text" value="LED"/>		

Web Interface¹²

Digitizer Waveforms

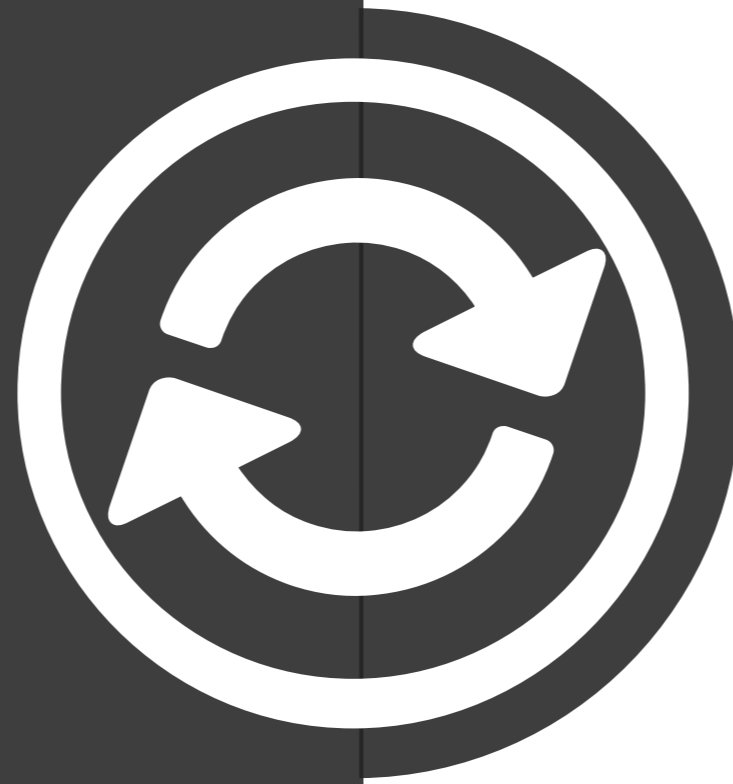


Pecos4



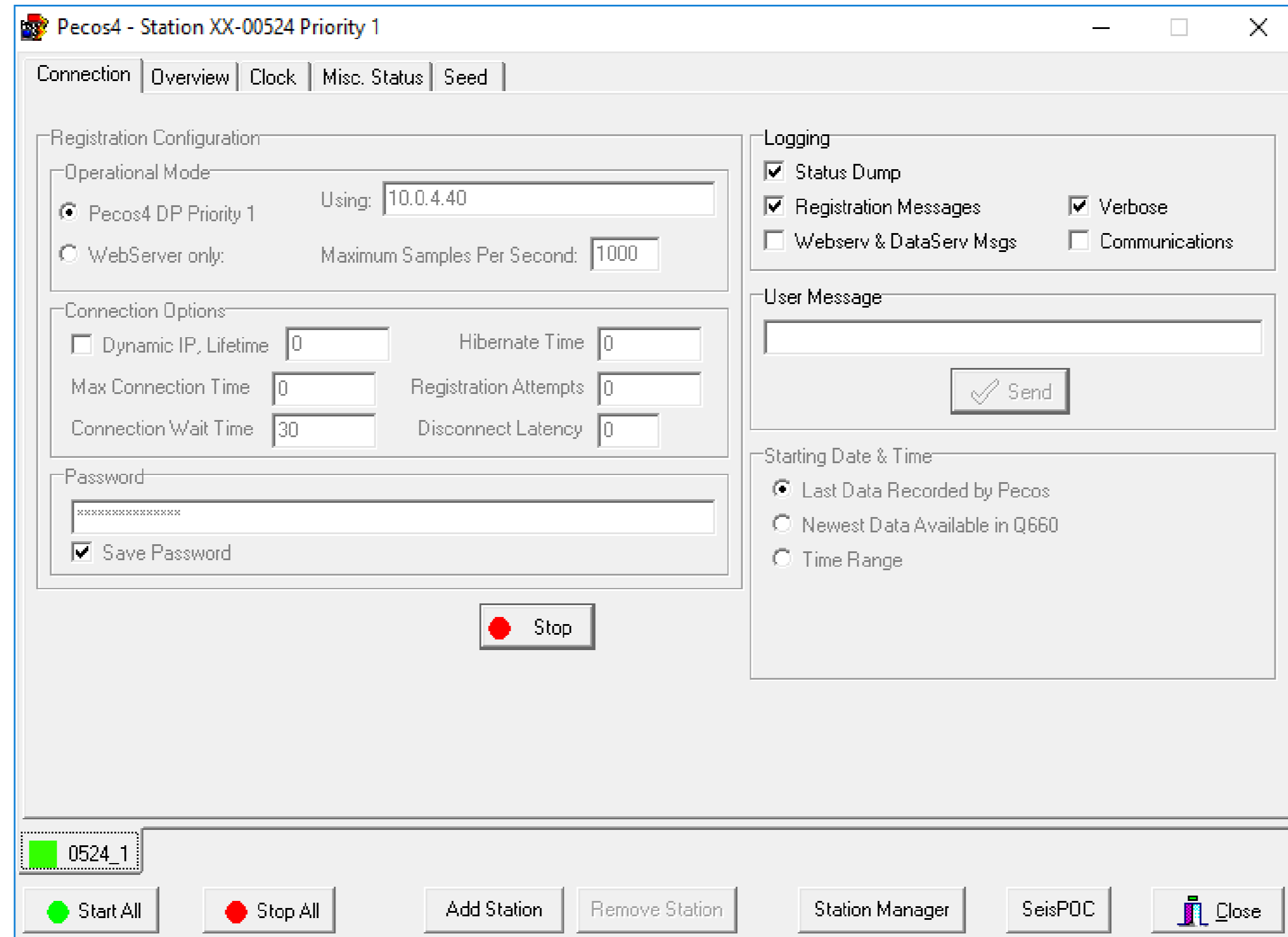
Overview

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



Pecos4¹

Connections



Pecos4²

Overview

Pecos4 - Station XX-00524 Priority 1

Connection Overview Clock Misc. Status Seed

Operational Status

CAL Status Phase 0µs Clock **100%** Packet Buffer **0%**

Mass Positions

A	1.68	1.68	1.68
B	1.68	1.68	1.68

Latest Data: 2019-04-23 18:33:50.000000 FE Boot Time: 2019-04-22 18:51:06/0.99d

Data Latency: 3s GPS Power: Powered on automatic Temp. **33.7**

Time Connected: 34m27s GPS Fix: On, 3D fix Voltage **13.840**

Total Data Gaps: 0 GPS Age: 32s Current **237.6**

Status Latency: 1s PLL State: Locked Tag ID: 524 S/N: 0660F458D2F76C28

Updates

5
 10
 20
 50
 100

Accumulated Statistics

Interval	Gaps	Boots	In Bps	Out Bps	Com Atmpt	Com Succ	Packets	ComEff	POCs	NewIP	DutyCyc	TPut	MissData
Minute	0	0	853	0	0	0	72	100.0%	0	0	100.0%	1.00	0
34min	0	0	34079	1	0	1	85170	100.0%	0	0	100.0%	41.55	0

2019-04-23 17:59:50:{600} Seconds since Track or Lock: 0.0
 2019-04-23 17:59:50:{600} VCO Control: 206
 2019-04-23 17:59:50:{600} Logger Status
 2019-04-23 17:59:50:{600} Last Power On: 2019-04-22 18:51:14
 2019-04-23 17:59:50:{600} Number of Power-ups: 1
 2019-04-23 17:59:50:{600} Number of Timeouts: 0
 2019-04-23 17:59:50:{600} Minutes since Activated: 1388
 2019-04-23 17:59:50:{600} Internal Data Logger 1: Q8DL 0.6, Priority 1
 2019-04-23 17:59:50:{600} External Data Logger 1: Pecos4 0.38, Priority 1
 2019-04-23 17:59:52:{100} Msg From [X1] Pecos4 Version: 0.38 Build 229 on Priority 1 registered.

0524_1

Start All Stop All Add Station Remove Station Station Manager SeisPOC Close

Pecos4³

Clock

The screenshot shows the 'Pecos4 - Station XX-00524 Priority 1' window with the 'Clock' tab selected. The interface is divided into several sections:

- GPS:** Displays real-time data including GPS Time (18:34:26.000000), GPS Date (2019-04-23), Fix Type (On, 3D fix), Height (174), Latitude (34.150), Longitude (-118.101), Run Time (1423min), Sat. Used (12), In View (16), Checksum (0), and Last Mark (2019-04-23 18:34:24).
- GPS Satellites:** A table listing satellite details. The first row is highlighted in blue.

Number	Elevation	Azimuth	SNR
1	9	112	28
4	0	0	34
5	11	266	26
7	51	84	34
8	25	45	38
9	27	165	27
11	30	99	31
13	26	316	39

- GPS Identification:** Shows ROM CORE 3.01 (107888), FwVER=SPG 3.01, PROTVER=18.00, and Clock Serial Number: 1.
- PLL:** Displays lock status: State: Lock, Initial VCO: 206.32, Time Error: 0.000000, Best VCO: 206.27, Since Track or Lock: 0.0sec, and VCO Control: 207.

At the bottom, there is a status bar with a green indicator and the label '0524_1', and a control panel with buttons for 'Start All', 'Stop All', 'Add Station', 'Remove Station', 'Station Manager', 'SeisPOC', and 'Close'.

Pecos4⁴

Misc. Status

Pecos4 - Station XX-00524 Priority 1

Connection | Overview | Clock | Misc. Status | Seed

Analog

- Input Voltage: 13.840V
- System Temperature: 33.8C
- Main Current: 235.7ma
- Main Power: 3.262W
- Antenna Current: 15.2ma
- Antenna Voltage: 2.994V
- Isolated Input: 0%
- Isolated Input/Output: 100%
- Humidity: 50%
- Sensor A Current: 21.3ma
- Sensor B Current: 21.0ma

General

- Total Hours: 26850.59hrs
- Power On Time: 565.96hrs
- Time of Last Boot: 2019-04-22 18:51:06
- Total Number of Boots: 10
- Time of Last Re-Sync: 2019-04-22 18:51:20
- Total Number of Re-Syncs: 14
- Time of Last BE Boot: 2019-04-22 18:50:57/0.99d
- Time of Last SS Boot: 2019-04-19 00:43:48/4.74d

Hardware & Software

- Q660 Serial Number: 0660F458D2F76C28
- Sensor A Type: Generic 3CH
- Sensor B Type: Generic 3CH
- Property Tag: 524
- Front End Verison: 0.229
- Back End Version: 0.110
- Clock Type: Int-MAX8
- PLD Versions: 19.7

Communications Status

Last Power-up: Power-ups: 1

Current Status: Continuous

Time On: 1423 Mins

Client	Prio	Identification
IDL 1	1	Q8DL 0.6
XDL 1	1	Pecos4 0.38

Pecos4 Module	Version
Pecos 4	0.38
PecMain	0
PecGlob	0
ConnTab	4
StatusTab	1
ClockTab	1

Lib660 Module	Version
LibClient	4
LibStrucs	4
LibTypes	0
LibMsgs	4
LibStats	1
LibVerbose	5

■ 0524_1

● Start All
 ● Stop All
 Add Station
 Remove Station
 Station Manager
 SeisPOC
 Close

Pecos4⁵

Seed

The screenshot shows the 'Pecos4 - Station XX-00524 Priority 1' window with the 'Seed' tab selected. It features a 'MiniSeed Generation Status' table and a 'Detector Status' table.

Channel	Description	512 Records	512 Age	4K Records	4K Overwrites	4K Age	4K Written
ELZ	SensorA Channel 1 100Hz	12365	4	1373	1	4	1373
ELN	SensorA Channel 2 100Hz	12365	4	1373	1	4	1373
ELE	SensorA Channel 3 100Hz	12365	4	1373	1	4	1373
EHZ	SensorB Channel 1 100Hz	12365	4	1373	1	4	1373
EHN	SensorB Channel 2 100Hz	12365	4	1373	1	4	1373
EHE	SensorB Channel 3 100Hz	12365	4	1373	1	4	1373
ECA	Calibration Monitor 100Hz	0		0	0		0
ENZ	Accel. Channel 1 100Hz	12366	1	1373	1	8	1373
ENN	Accel. Channel 2 100Hz	12365	4	1373	1	4	1373
ENE	Accel. Channel 3 100Hz	12365	5	1373	1	5	1373
BNZ	Accel. Channel 1 40Hz	4946	5	548	1	108	548

Detector Name	Active	Declared	Init.	Enab.

Buttons: Full Flush, Flush Files, Start All, Stop All, Add Station, Remove Station, Station Manager, SeisPOC, Close.

Resources

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



Kinematics Datasheet Request Form

Product Type:

Serial Number 1:

Serial Number 2:

Serial Number 3:

E-mail Address:

Submit

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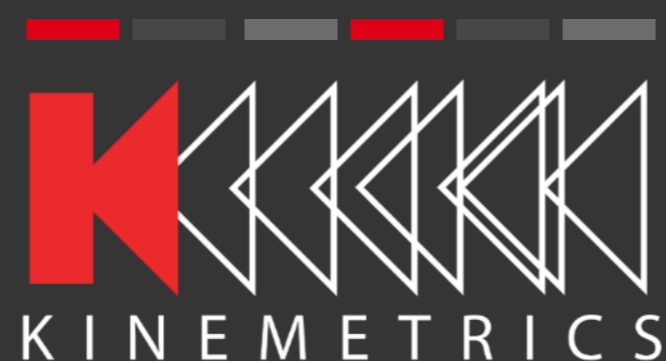


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THANK YOU



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