Jeff Welton
Sales Manager, Central USA
Nautel

Alex Hartman
Customer Service Technologist
Nautel

TRANSMISSION TALK TUESDAY

Episode #47

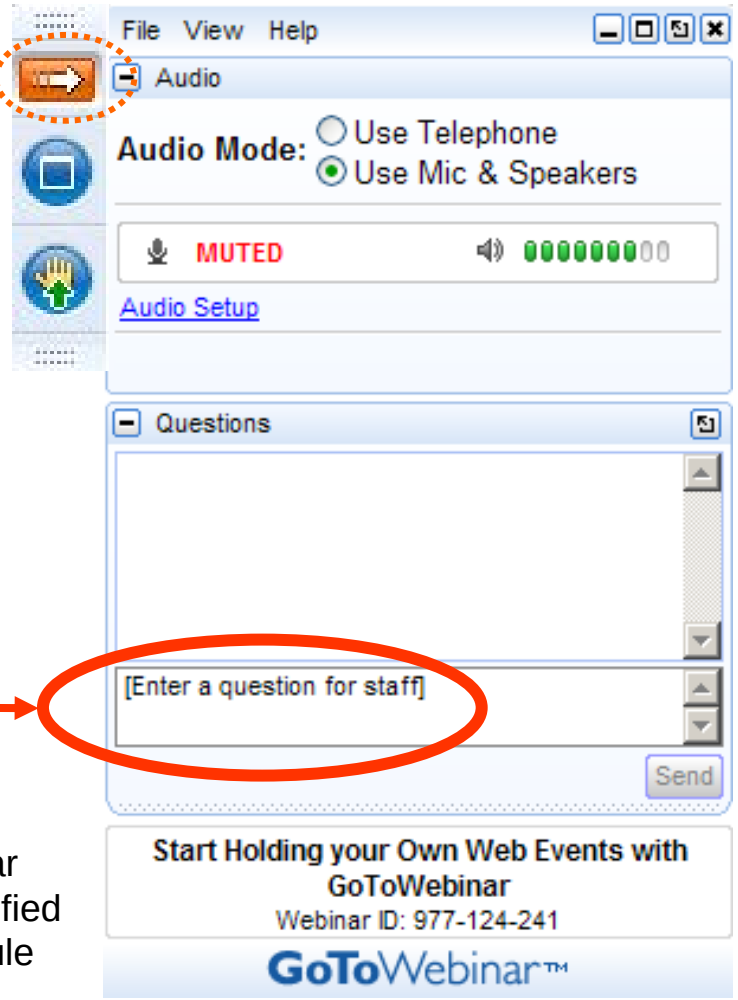
Software Defined Radio (SDR)

nautel
AM/FM Radio Transmitters

Your questions please?

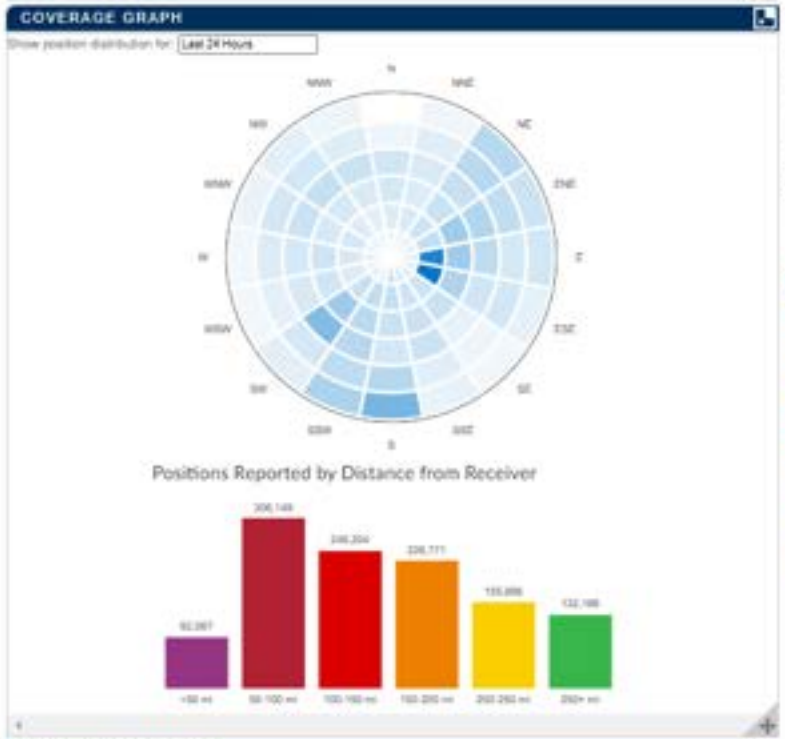
(if you don't see the control panel, click on the orange arrow icon to expand it)

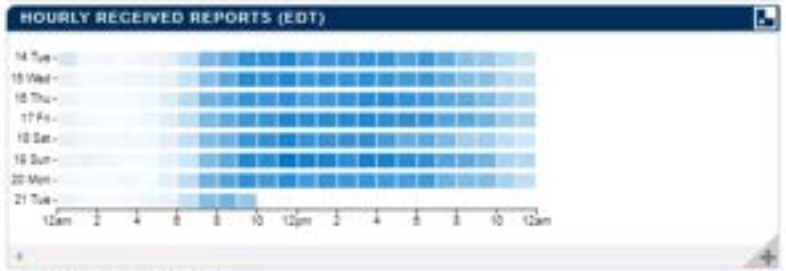
Please enter your questions in the text box of the webinar control panel (remember to press send)



Remember: The completion of a Nautel webinar qualifies for ½ SBE re-certification credit, identified under Category I of the Re-certification Schedule for SBE Certifications.

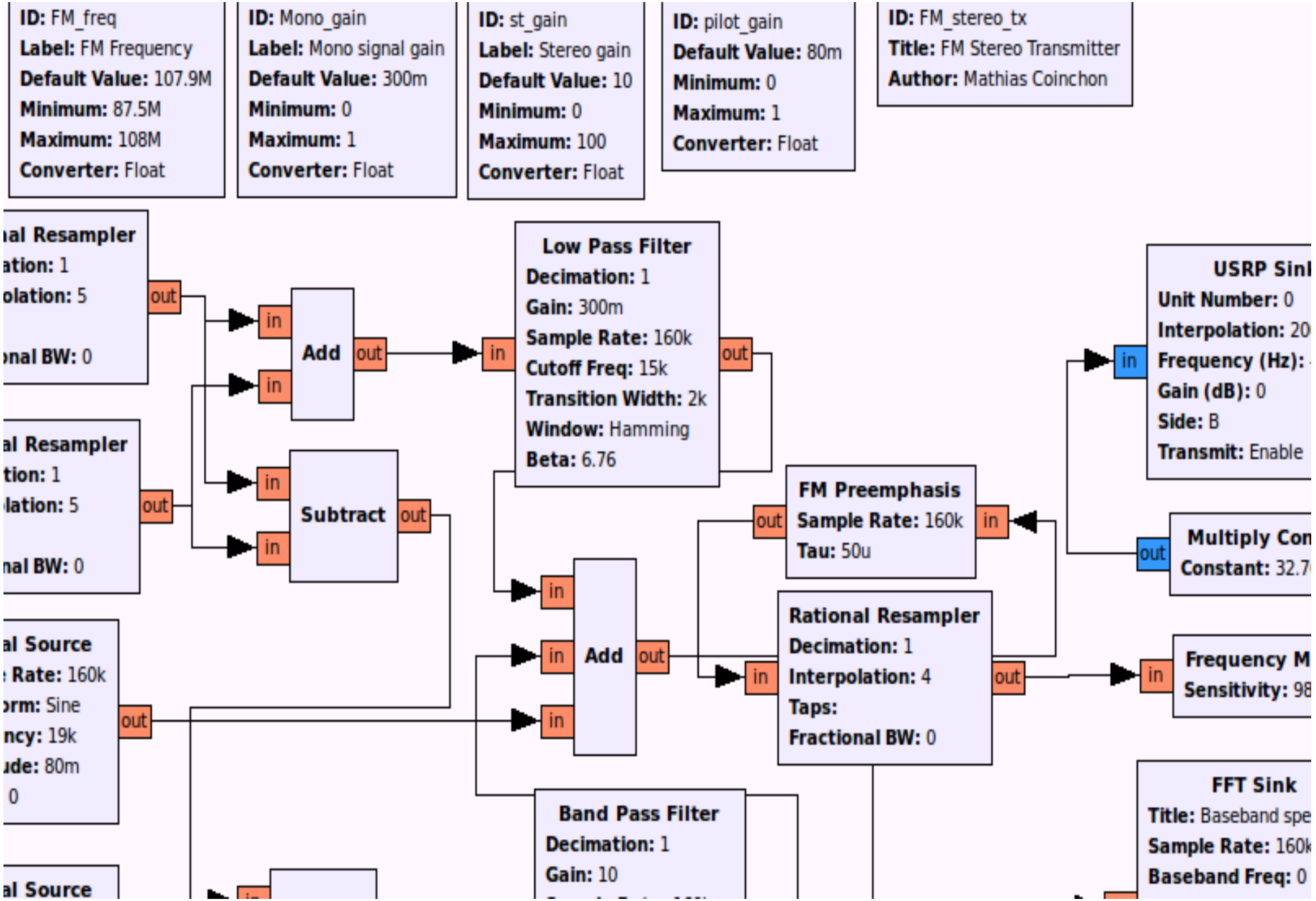

AUKEY
SDRplay
RSP2
2 GHz SDR Receiver
AIRSPY
PLUTO +
nESDr SMArt





https://flightaware.com/adsb/piaware/build

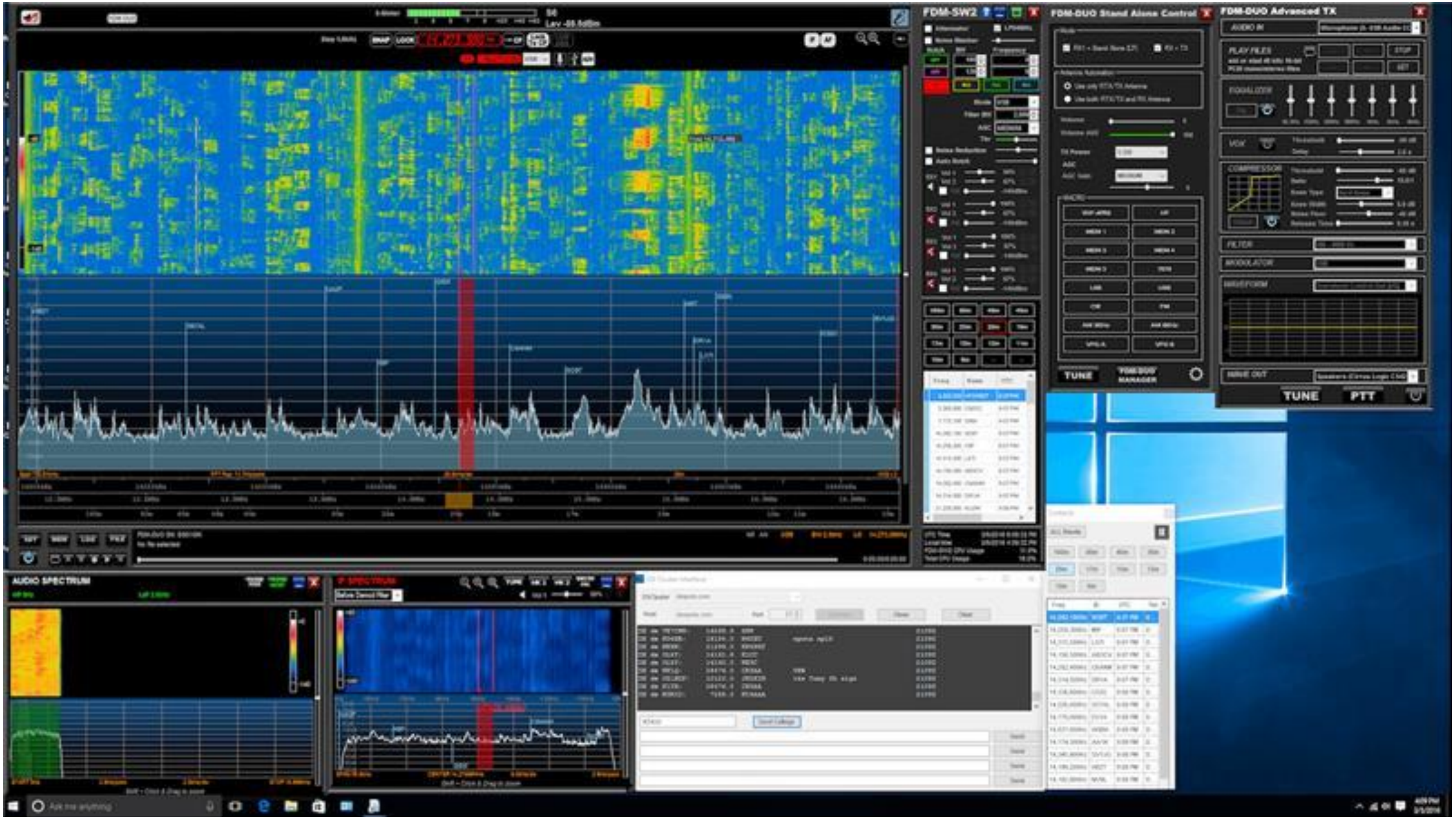
TRANSMISSION TALK TUESDAY



GNURadio showing an FM Transmitter

https://shop.elad-usa.com/sdr-radio/fdm-s1/

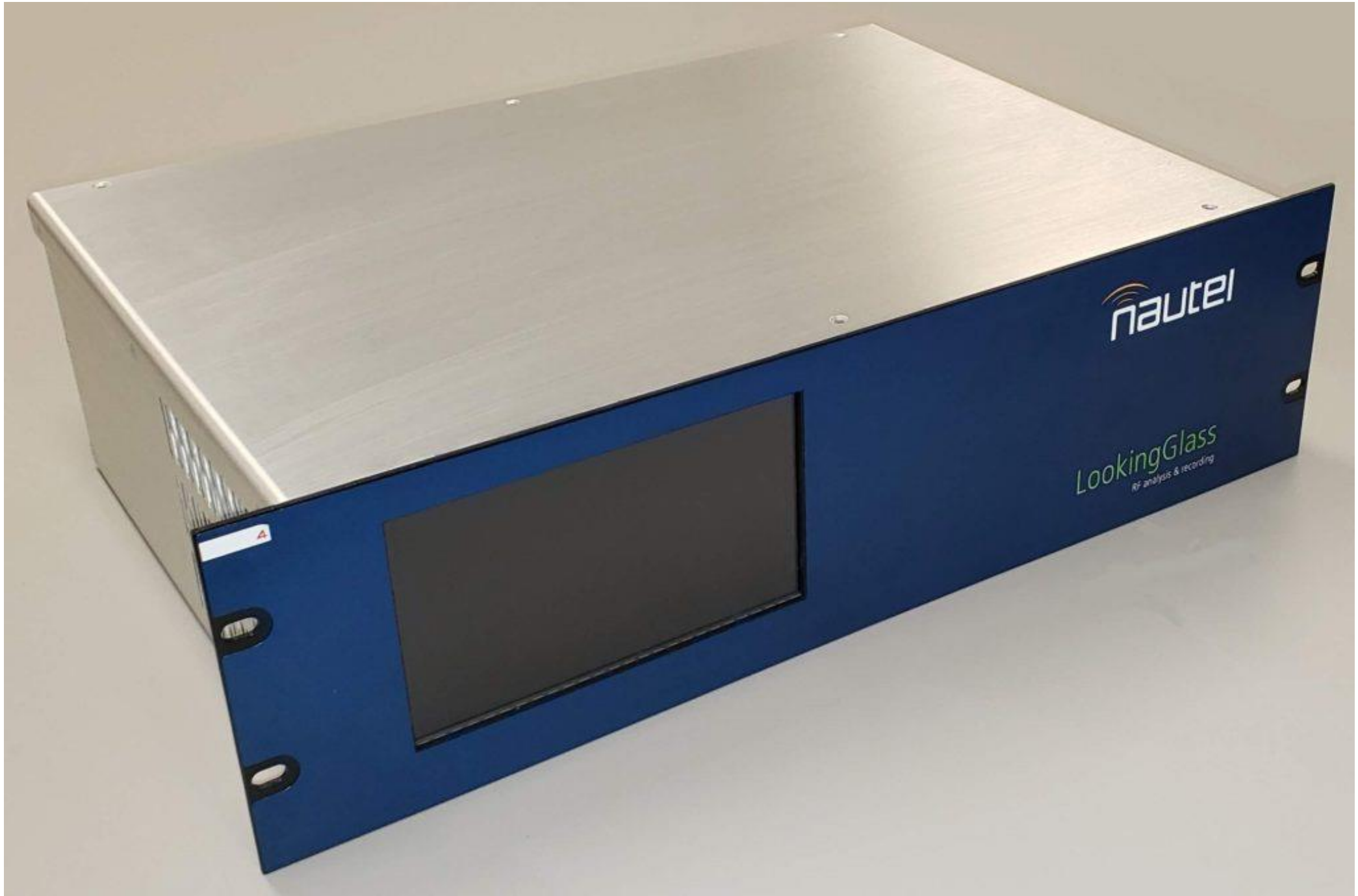
TRANSMISSION TALK TUESDAY



TRANSMISSION TALK TUESDAY

GNURadio showing an FM Receiver

TRANSMISSION TALK TUESDAY



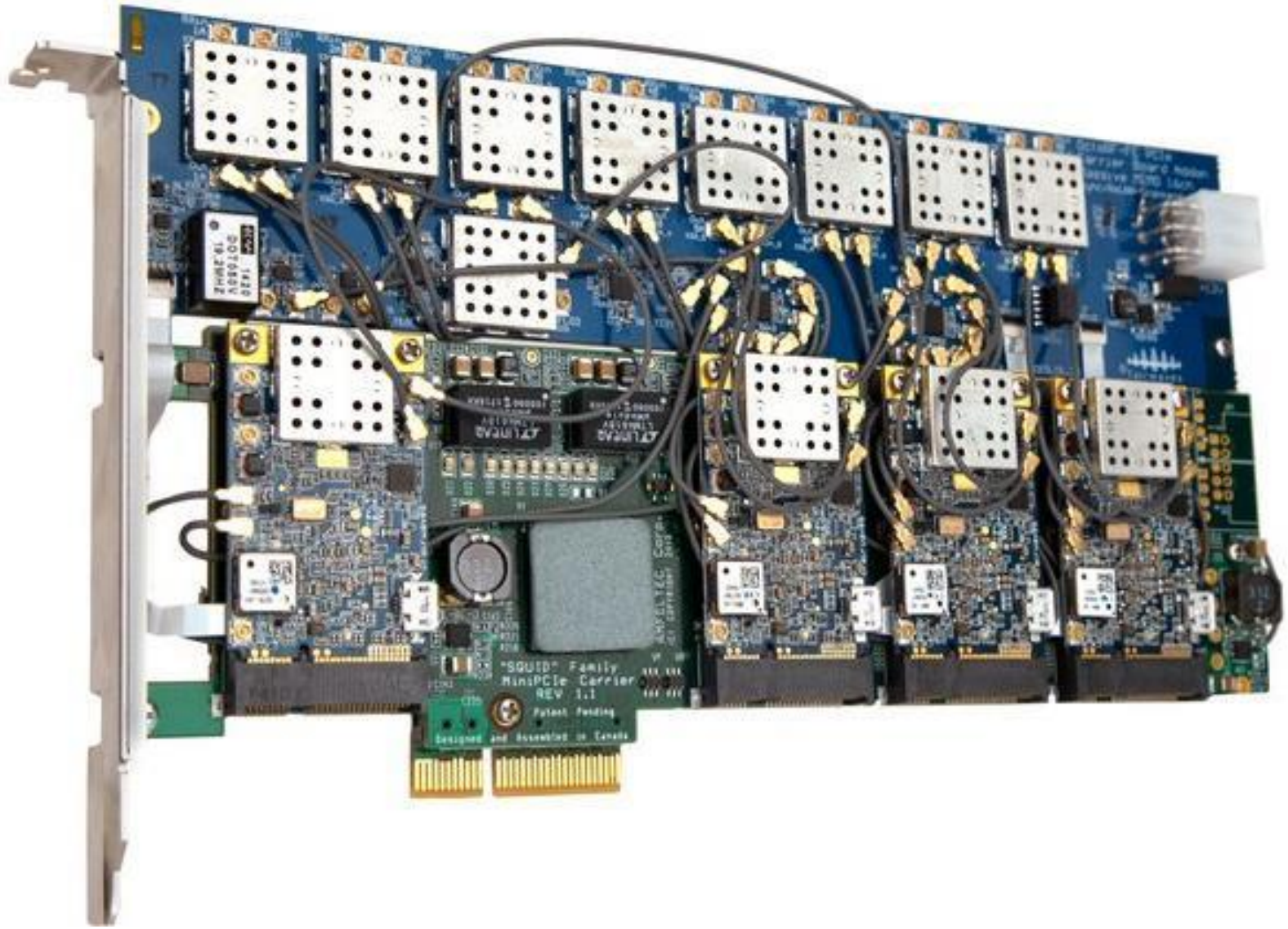
TRANSMISSION TALK TUESDAY


MPXtool
WHMH
Location: St. Cloud MN
CPU Load: 51 %
Client Volume: -31.0 dB
WHMH - WHMH MPX
Line 1 Volume: -90.0 dB
Common - LW Stereo Input
Line 2 Volume: -90.0 dB
KNSI - KNSI MPX
Client CPU Usage: 17%
Menu
1 2 3 4 5 6
101.7
Johnny R
WHMH
6863
The Johnny Rock Show
Rock
TP
TA
MS
CT
ST
AH
CMP
3.7%
Power
+ Mod -
Pilot
De-mod
+7.7
98 97
8.7
142 116
-7.3
Home
KVSC
MPX 2
MPX 3
MPX 4
MPX 5
MPX 6
MPX 7
Country 99
ZROOK
WHMH
MPX 11
MPX 12
The Loon
MPX 14
MPX 15
MPX 16
MPX 17
MPX 18
MPX 19
KKDM
MPX 21
KCLD
Lite FM
MPX 24
MPX 25
MPX 26
MPX 27
KHMK
KNSI
Kool 108
Common
Client Audio
RF
Input
Output
Misc
De-modulator
TCP Link Status
Display Settings
Enable De-modulator
Current DC offset (PPM): 0
Frequency 10: 101.7 MHz
Fine tune: 0.0 kHz
Custom Name: WHMH
MPX BW: 80 kHz
Shortened: WHMH
IF BW: 230 kHz


MPX tool
Overview
Location: St. Cloud MN
CPU Load: 48 %
Client Volume: -31.0 dB
Common - MPX 1
Line 1 Volume: -90.0 dB
Common - LW Stereo Input
Line 2 Volume: -90.0 dB
KNSI - KNSI MPX
Client CPU Usage: 19%
Menu
1 2 3 4 5 6
86.1 86.9 87.7 88.5 89.3 90.1 90.9 91.7 92.5 93.3 94.1 94.9 95.7 96.5 97.3 98.1 98.9 99.7 100.5 101.3 102.1 102.9 103.7 104.5 105.3 106.1 106.9 107.7 108.5 109.3
Full Band
0
-12
-24
-36
-48
-60
-72
Home
KVSC
MPX 2
MPX 3
MPX 4
MPX 5
MPX 6
MPX 7
Country 99
ZROOK
WHMH
MPX 11
MPX 12
The Loon
MPX 14
MPX 15
MPX 16
MPX 17
MPX 18
MPX 19
KKQM
MPX 21
KCLD
Lite FM
MPX 24
MPX 25
MPX 26
MPX 27
KHMK
KNSI
Kool 108
Common
Client Audio
Overview
RF Front end
De-mod Tuning
Delay
TCP Link Status
Display Settings
Main
RF Rec
RX: 24.576 MSPS D: 0
RF Gain: 36.0 dB
Frequency Compensation: 0 PPM
I/Q DC offset: 0
DC Spur Shift: -225 KHz

https://www.ettus.com/all-products/x310-kit/

TRANSMISSION TALK TUESDAY



https://www.crowdsupply.com/fairwaves/xync

https://www.electronicdesign.com/industrial-automation/article/21156486/per-vices-corp-the-future-of-5g-with-sdr

TRANSMISSION TALK TUESDAY

Online Information

Webinars
https://www.nautel.com/resources/webinars/

Nautel Waves Newsletter
https://www.nautel.com/newsletters/

YouTube
http://www.youtube.com/user/NautelLtd

Online Info, such as the Broadcasters' Desktop Resource
https://www.thebdr.net/

TRANSMISSION TALK TUESDAY

THANK YOU!

nautel
AM/FM Radio Transmitters