**IONOS SIM HF/VHF Simulator Release Notes**

**Revision .9.18 6/1/2020**

IDE Arduino 1.8.12

Board: Teensy 4.0

USB Type: Serial

CPU Speed: 600 MHz

Optimize: FASTEST

Keyboard: US English

Programmer: AVRISP mkII

Libraries:

Audio.h

Wire.h

SPI.h

Bounce2.h

Encoder2.h

ILI9341\_t3.h Adafruit ILI9341 TFT Displays

Programmer: Rick Muething, KN6KB, Winlink Development Team

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Beta Release Notes: Version .9.18

All functions operational as described in Publish IONOS SIM specification.

Added empirical gain adjustments to balance level for WGN, and Multipath Modes 2,3, 4 Paths

Investigating MPP throughput with Pactor 4. P4 throughput on MPP appears worse than with other simulator.

Includes unique 8 Hex digit serial number shown during power on revision Splash screen.

Memory Usage: 156912 bytes (7%) program storage space

Global variables use 193201 bytes (36%) of dynamic memory

32 Teensy Audio “components” used. Teensy Audio 16 bit, 44100 Hz sample rate.

2276 Lines including comments