Phase 4 Ground Spectrum Sensing

Autonomously Differentiate Between DVB-T2, DVB-T, DVB-S2, DVB-S2X

Automatic differentiation between different communications standards enables autonomous operation between payloads.

The standards supported are DVB-T, DVB-T2, DVB-S2/X. DVB-T in order to support Digital Amateur Television Network interoperability, DVB-T2 for Groundsat payloads, and DVB-S2/X for any spacecraft that comply with Phase 4 Ground air interface.

Manual configuration is the baseline operation for Phase 4 Ground. This document describes an optional accessory shift-knob that supplies meaningful input to the radio in order to allow the radio to automatically change modes based on what type of downlink appears in the receiver passband.