

ABSTRACT

TITLE OF INVENTION: DIGITAL BROADCAST RECEIVER

A digital broadcast receiver for receiving a digital modulation signal of the present invention includes channel selection means inputting a digital modulation signal of a radio frequency band and frequency converting a desired digital modulation signal into a designated intermediate frequency signal; oscillation means for generating a local oscillation signal used for frequency conversion at the channel selection means; oscillation frequency control means for controlling a frequency of the local oscillation signal at the oscillation means; phase noise characteristic control means for improving a phase noise characteristic of the local oscillation signal generated at the oscillation means; filter means for extracting the intermediate frequency signal selected at channel selection means; orthogonal detection means for orthogonally detecting the intermediate frequency signal extracted at the filter means; A/D converter means for converting the analog output of the orthogonal detection means into a digital signal; and digital demodulation means for digitally demodulating the output of the A/D converter means; and makes a high performance digital reception possible which can improve an AFC function by the channel selection means and can improve a bit error rate at the same time.

Figure 1.