

Product Overview

LC72717PW: Mobile FM Multiplex Broadcast Demodulator (DARC) Receiver

For complete documentation, see the data sheet.

The LC72717PW is a data demodulation LSI for receiving FM multiplex broadcasts for mobile reception in the DARC format. This LSI includes an on-chip bandpass filter for extracting the DARC signal from the FM baseband signal. It also supports ITU-R recommended FM multiplex frame structures (methods A, A', B, and C) and can implement a compact, multifunction DARC reception system. The LC72717PW's package, pin assignment and electrical characteristics are same as the LC72715PW (VICS-LSI). Functionally, the LC72717PW is a product that VICS function is removed from the LC72715PW. The LC72717PW is also control-compatible with the LC72711LW. Note that a contract with the NHK Engineering System, Inc. may be required to produce DARC compatible products in case, please contact with the NHK Engineering System, Inc.

Features

- Adjustment-free 76 kHz SCF bandpass filter
- Supports all FM multiplex frame structures under CPU control.
- MSK delay detection system based on a 1T delay.
- Error correction function based on a 2T delay (in the MSK detection stage)
- Digital PLL based clock regeneration function
- Shift-register 1T and 2T delay circuits
- Block and frame synchronization detection circuits
- Functions for setting the number of allowable BIC errors and the number of synchronization protection operations.
- Error correction using (272, 190) codes
- Built-in layer 4 CRC code checking circuit

For more features, see the data sheet

For more information please contact your local sales support at www.onsemi.com.

Created on: 10/24/2021