

Digital TV Demodulator for ISDB-T/S Double Tuner MN884434



■ Overview

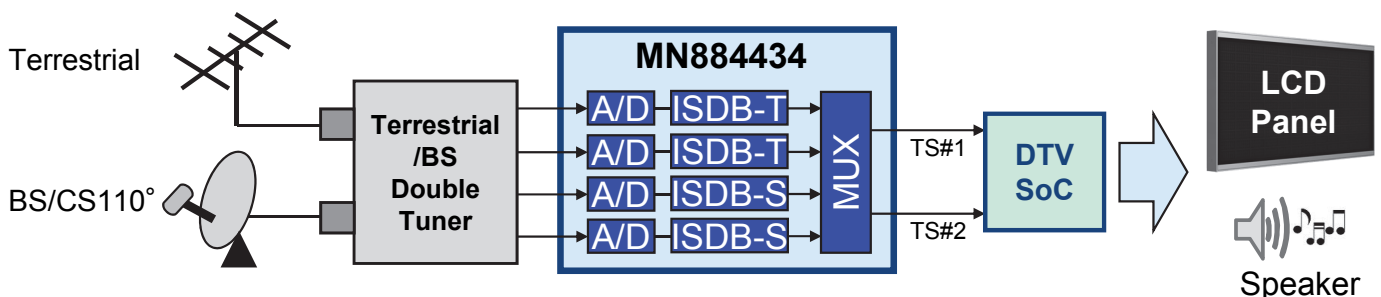
MN884434 is demodulator LSI for terrestrial and BS/CS broadcasts. It supports the broadcast specifications of Japan, South America and others, performing demodulation and error correction and outputting transport streams (TS).

■ Features

- 2-channel reception of selected from digital terrestrial (ISDB-T) × 2 and digital BS/CS (ISDB-S) × 2
- Built-in ADC (A/D converter) and de-interleave memory
- Built-in I²C bus-compliant CPU interface circuit and tuner control circuit

■ Applications

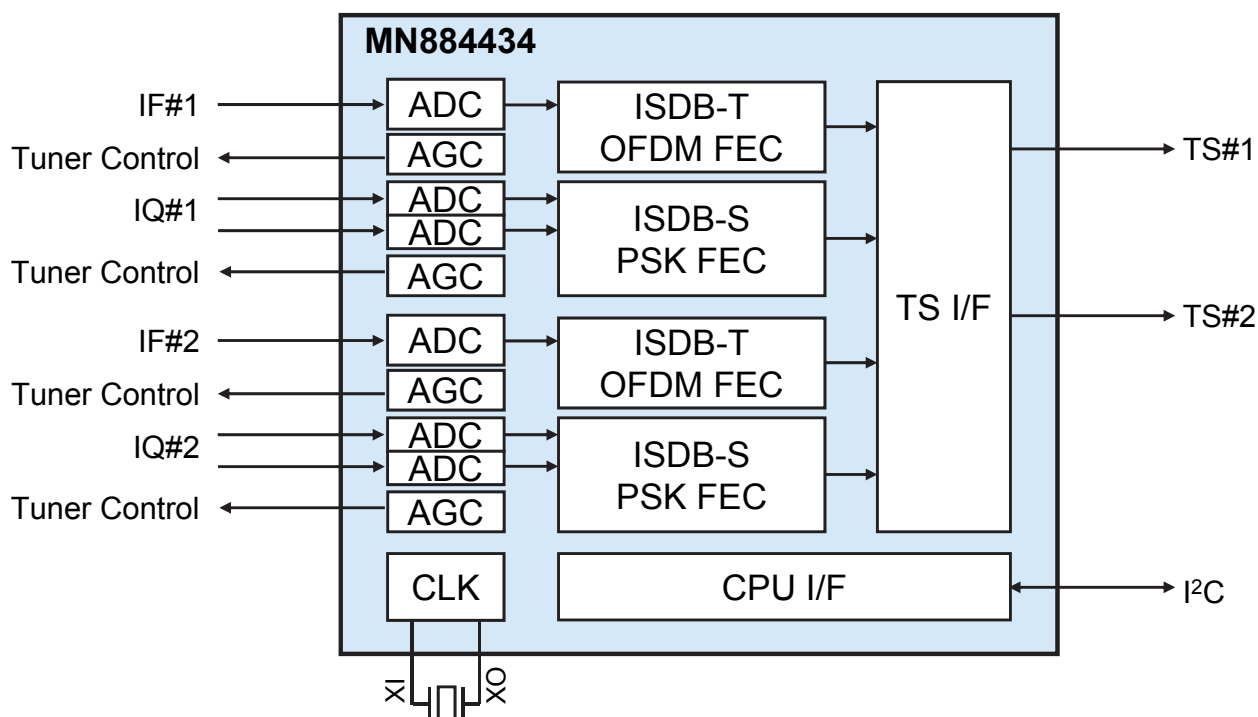
(Digital terrestrial and digital BS/ CS reception system for double tuner in Japan)



■ Specifications

Function		Specifications
Package		TQFP 128-pin Size: 14 mm x 14 mm Lead pitch: 0.4 mm
Supply Voltage	For external	3.3V
	For Internal	1.2V
Input		Terrestrial: Low-IF or High-IF BS/CS: IQ
Output		TS Serial / Parallel
CPU interface		I ² C bus
ISDB-T	Bandwidth	6, 7, 8 MHz
	FFT size	2K(Mode1), 4K(Mode2), 8K(Mode3)
	Guard interval length	1/32, 1/16, 1/8, 1/4
	Carrier modulation scheme	QPSK, 16QAM, 64QAM, DQPSK
	Convolutional-coding rate	1/2, 2/3, 3/4, 5/6, 7/8
ISDB-S	Symbol rate	28.86 Mbaud
	Modulation scheme	8PSK, QPSK, BPSK
	Convolutional-coding rate	8PSK: 2/3 QPSK: 1/2, 2/3, 3/4, 5/6, 7/8 BPSK: 1/2

■ Block Diagram



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