

# TC9316F-001

## DTS MICRO CONTROLLER (DTS-11)

The TC9316F-001 is a digital tuning system optimum for portable sets such as pocket radios, headphone stereo sets, etc... By combining TC9316F-001 with prescaler TD7101F or TD6134AF, 4-band of FM/MW/LW (TV)/SW are provided compatibly with worldwide destinations.

### FEATURES

○ Receiving band

AREA	CODE		MW STEP	FM STEP	BAND	RECEIVING FREQUENCY [Hz]	STEP [Hz]	FREF [Hz]	IF [Hz]							
	E0	E1														
U.S.A.	0	0	—	—	TV	2~13ch	1ch	3.125k	10.7M							
				0 / 1	FM	(*1) 87.5~108.0M	100 / 200k	12.5k								
			0	—	MW	520~ 1710k	10k	5k	450k							
			1	—		522~ 1620k	9k	3k								
East Eur.	0	1	—	0 / 1	FM	65.0~ 74.0M 87.5~108.0M	50 / 100k	12.5k	10.7M							
				0	—	MW	522~ 1620k	9k		3k						
			1	—	520~ 1620k		10k	5k	450k							
			—	—	LW	144~ 281k	1 / 9k (*3)	1k								
General	1	0	—	0 / 1	FM	87.5~108.0M	50 / 100k	12.5k	10.7M							
				0	—	MW	522~ 1620k	9k		3k						
			1	—	520~ 1620k		10k	5k	450k							
			—	—	LW	144~ 281k	1 / 9k (*3)	1k								
China	1	1	—	0 / 1	FM	87.0~108.0M	50 / 100k	12.5k	10.7M							
				0	—	MW	522~ 1611k	9k		3k						
			1	—	531~ 1602k		450k									
—	SW <sub>0</sub>	SW <sub>1</sub>	—	—	—	—	—	—	—							
SW	0	0	—	—	—	—	—	—	—							
										0	1	SW	3.8~ 12.5M	5k	5k	450k
										1	0		5.95~ 15.6M			
										1	1		2.3~ 6.2M			
1	1	7.1~21.85M														

(\*1) If step in 200kHz, receiving frequency range is 87.5~108.1MHz.

(\*2) It's able to combination with any area in SW band.

(\*3) There's only Auto tuning function with 9kHz step.

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- Tuning function
    - Manual tuning
    - Auto-tuning
  - Memory function


	Fixed	Random
FM / AM	10 / 10	15 stations
FM / AM / LW (TV)	10 / 10 / 5	15 stations
FM / AM / SW-A or B	10 / 5 / 5	15 stations
FM / AM / SW <sub>1</sub> / SW <sub>2</sub>	5 / 5 / 5 / 5	10 stations
FM / AM / LW / SW-A or B	5 / 5 / 5 / 5	10 stations
- 12 / 24 Hour Clock indication.
- Sleep / Alarm / Snooze function.

TC9316F-001 Layout (With prescaler : TD6134AF)

