

The WDCT45-AS Cordless Telephone operates in the ISM (Industrial Scientific and Medical) band (2400-2483.5 MHz). The 20dB bandwidth of the hopping channels used in WDCT45-AS is less than 1MHz. And the number of channels used in WDCT45-AS is 93. The WDCT45-AS is a Digital spread spectrum, it uses the full available frequencies in the ISM band for operation and can make it difficult for other 2400MHz devices to operate correctly. Optional handset Model WDCT45-AS and charger, that operates from 2400-2483.5 MHz. The antenna used for the base and the handset are permanently attached to the EUT.

Electrical Specifications	Base Unit	Portable Handset
Frequency	902-928 MHz	902-928 MHz
RF Power	Peak: < 200 mW Average: < 100 mW	Peak: < 200 mW Average: < 25 mW
Channel Spacing	200 kHz	200 kHz
Number of Channels	128	128
Modulation	MSK	MSK
Multiple Access	Frequency Hopping TDMA	Frequency Hopping TDMA
Frequency Hopping Rate	100 per second	100 per second
TDMA Frame Length	10 ms	10 ms
Number of Slots/Frame	8	8
Number of Users/Carrier	4	4
Receiver Sensitivity	< -106 dBm (@ BER $10^{-2}$ )	< -106 dBm (@ BER $10^{-2}$ )
Telephone Interface	RJ11 x 2, RJ 14 x 2	NA
Speech Coding	8 kbps G.729A	8 kbps G.729A
Channel Coding	8 kbps Convolutional + CRC	8 kbps Convolutional + CRC
Transmission Data Rate	170.678 kbps	170.678 kbps
User Data Rate	128 kbps duplex	128 kbps duplex
Duplex	Time Division Duplex (TDD)	Time Division Duplex (TDD)
Voice Quality	TIA/EIA-470B	TIA/EIA-470B
No. of System ID	65,536	65,536
Ring Signal	20-50 Hz, 12-90 Vrms	NA
Auto-Attendant Coding	8 kbps G.729	8 kbps G.729

Flash Time	100-1000 ms programmable	NA
Power Source	120V AC/DC Adapter 6V Backup battery	3.6V Li-ion Battery
Charger Current	NA	500 mA
Charge Time	NA	4 hours (from empty)
Regulation Compliance	FCC Part 15, Part 68 UL	FCC Part 15, Part 68 UL
Operating Temperature	-0 – 50 °C	-0 – 50 °C
Storage Temperature	-10 – 60 °C	-10 – 60 °C
Humidity	20 – 75 %	20 – 75 %
Dimension without antenna	TBD	TBD
Weight	TBD	TBD