

OTI SCI1000 Transmitter Description for FCC

Type of equipment				
<input checked="" type="checkbox"/>	Stand-alone (Equipment with or without its own control provisions)			
<input type="checkbox"/>	Combined equipment (Equipment where the radio part is fully integrated within another type of equipment)			
<input type="checkbox"/>	Plug-in card (Equipment intended for a variety of host systems)			
Intended use		Condition of use		
<input type="checkbox"/>	fixed	Always at a distance more than 2 m from all people		
<input type="checkbox"/>	mobile	Always at a distance more than 20 cm from all people		
<input type="checkbox"/>	portable	May operate at a distance closer than 20 cm to human body		
Assigned frequency range		.....MHz	
Operating frequency range		...13.56MHz		
RF channel spacing		.....kHz	
Maximum rated output power		At transmitter 50 Ω RF output connector	26dBm	
		Effective radiated power (for equipment with no RF connector)	.....dBm
Is transmitter output power variable?		<input checked="" type="checkbox"/> No		
		<input type="checkbox"/> Yes	continuous variable	
			stepped variable with stepsizedB
			minimum RF powerdBm
	maximum RF power	.....dBm	
Antenna connection				
<input checked="" type="checkbox"/>	unique coupling	<input type="checkbox"/> standard connector	<input type="checkbox"/> integral	
			with temporary RF connector	
			without temporary RF connector	
Antenna/s technical characteristics				
Type	Manufacturer	Model number	Gain	
Loop antenna		Need to supply	NA	
Transmitter 99% power bandwidth		.....kHz	
Transmitter aggregate data rate/s		848Kbps		
Transmitter aggregate symbol (baud) rate/s		.....Msymbols (MBaud) per second	
Type of modulation		ASK		
Type of multiplexing				
Modulating test signal (baseband)		Repetitive REQA/B according to ISO14443-2&3		
Maximum transmitter duty cycle in normal use		100%	Tx ON time .....msec | Period .....msec	
Transmitter duty cycle supplied for test		100%	Tx ON time .....msec | Period .....msec	
Transmitter power source				
Battery	Nominal rated voltage	.....VDC	Battery type Ni- Cd, Lithium, Lead- Acid, other
DC	Nominal rated voltage	5VDC+5%		
AC mains	Nominal rated voltage	.....VAC	Frequency .....Hz
Is there common power source for transmitter and receiver		yes	no	
Emission designator according to Attachment 10				
Spread spectrum technique used		Frequency hopping (FHSS)		
		Digital transmission system (DTS)		
		Hybrid		
Spread spectrum parameters for transmitters tested per FCC 15.247 only				
DSSS	chip sequence length	.....bits	
	spectrum width	.....MHz	
FHSS	total number of hops	.....	
	dwel time	.....msec	
	bandwidth per hop	.....MHz	
	max. separation of hops	.....MHz	

Crystals:

- 24.00MHz – Microprocessor.
- 13.56MHz – Transceiver.

Hemy Itay
OTI