

Information about the Applicant	
Grantee (Company Name)	Zebra Technologies Corporation
FCC Contact Person	Charles Derrow
Address	333 Corporate Woods Parkway
City, State, Zip	Vernoin Hills, Illinois 60061
Job Number	ZEBR0020
Model	P100I
FCC ID	I28-P100I
Agent	Northwest EMC, Inc.
Approval Type	Original
Equipment Class	DXX Part 15, Low Power Communication Device Transmitter
Rule Part	15.225

Overview

The system consists of a transceiver module and an antenna module mounted in the printer case. The antenna module with integral matching network connects via coaxial cable and MMCX connector to the transmitter module. The Mifare Contact Less reader uses a GemAlto GemProx module. The GemAlto GemProx exciter modulates a 13.56MHz carrier signal in accordance with ISO/IEC 14443 A&B and ISO/IEC 15693-2. The modulated carrier is then filtered to suppress harmonics before driving the antenna. The output impedance of the exciter is 50 ohms for driving remote antennas through a coax cable and the impedance matching network of the antenna matches the impedance for maximum power transfer. The GemProx generates a 13.56MHz signal, referred as the carrier, at the input of the reader antenna that is transmitted in the form of magnetic fields. The magnetic field generates a voltage across the card antenna and when that voltage reaches sufficient magnitude the chip on the card will power up and begins communicating with the reader by modulating the impedance seen by its antenna.

Confidentiality is requested for allowed files. The request is properly addressed and referenced.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.

Signature



Dave Tolman, TCB Committee
9/26/2007