

Equipment Under Test General Information Form

File Number: _____

Applicant's complete, legal business name:	SCAN~LINK TECHNOLOGIES INC.
Applicant's Industry Canada Company Number (CN):	9283A
IC:	9283A-SLAU279MR
Applicant's FCC Registration Number (FRN):	GC752215
FCC ID:	YUU-SLAU279MR
Applicant's mailing address:	
Street Address:	6-1500 Upper Middle Rd. Suite #255
City:	Oakville
Province/State:	ON
Country:	CANADA
Postal/Zip Code:	L6M 0C2
Applicant Contact Person:	
Name:	Uwe Schaible
Title:	Chief Technical Officer
Telephone:	289-439-8218
Fax No.:	905-304-6209
E-mail:	uschaible@scan-link.com

Manufacturer's complete, legal business name:	MARLEX Engineering Inc.
Manufacturer's mailing address:	
Street Address:	1374 Sandhill Drive
City:	Ancaster
Province/State:	ON
Country:	CANADA
Postal/Zip Code:	L9G 4V5
Manufacturer Contact Person:	
Name:	Uwe Schaible
Title:	President
Telephone:	905-304-6208
Fax No.:	905-304-6209
E-mail:	uschaible@marlexeng.com

Equipment Under Test (EUT) Information:	
Description of Product as it is marketed:	RFID Tag Reader
Product Name:	ARMOUR ANTENNA UNIT
Brand Name:	SCAN~LINK SAFETY SYSTEM
Model(s) No.:	SLAU-270MR
Serial No.:	00:1C:2C:02:00:2D:94:00
External Power Supply:	No
Primary User Functions of EUT:	Upon receiving a reverse input signal, the SCAN~LINK system will begin rapid rate transmission with the SkyeTek M10 RFID module to detect RFID tags. The reverse input signal can be received at the ARMOUR ANTENNA UNIT containing the RFID reader/antenna, or at

	the DISPLAY UNIT. In this reverse state, the SkyTek M10 RFID module will transmit at pseudo random intervals. Each read (tag select) attempt is approximately 60ms in duration. These tag select events are spaced by a pseudo random dead time ranging between 60ms and 600ms. This cycle is repeated continuously until the vehicle has exited its reverse state. In the non-reverse state, the SCAN~LINK system will begin transmission with the SkyTek M10 RFID module to detect tags at a slower rate of approximately one transmission per second.
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EUT'S Technical Specifications:	
UHF RFID - TRANSMITTER	
Equipment Type:	<input type="checkbox"/> Portable <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Base station (fixed use)
Intended Operating Environment:	<input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial, industrial or business environment
Power Supply Requirement:	12VDC to 28VDC Nominal
RF Output Power Rating:	30dBm max, limit to what passes
Operating Frequency Range:	902.3MHz to 927.7MHz
RF Output Impedance:	50 ohms
Channel Spacing (if applicable):	100kHz typical
Duty Cycle:	<10%
Modulation(s):	70% typical
*Emission Designator(s): *Emission Designator Tool can be found at IC website https://strategis.ic.gc.ca/app/secure/sitt/reltel/displayPublicEmDesignatorTool.do?lang=eng	
Oscillator Frequency(ies):	16MHz
Temperature Ratings (Degree C)	-40 deg C to +85 deg C
Antenna Connector Type:	<input type="checkbox"/> BNC <input type="checkbox"/> N <input type="checkbox"/> TNC <input checked="" type="checkbox"/> SMA (915MHz) <input type="checkbox"/> Integral <input type="checkbox"/> Other, Specify:
Antenna Description (if more than one antenna, provide a list of all the antennas to be used with the device):	
Manufacturer:	Custom (MARLEX Engineering Inc.)
Type:	Dual PCB Loop
Model:	N/A
Frequency Range:	900MHz to 930MHz optimized
Impedance:	50 ohm nominal
Gain (dBi):	6.15
UHF RFID - RECEIVER	
Equipment Type:	<input type="checkbox"/> Portable <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Base station (fixed use)
Power Supply Requirement:	12VDC to 28VDC Nominal
Operating Frequency Range:	902.3MHz to 927.7MHz

RF Input Impedance:	50 ohms
Intermediate Frequency(ies):	
Oscillator Frequency(ies):	16MHz

EUT'S Technical Specifications:	
2.4GHz ZigBee - TRANSMITTER	
Equipment Type:	<input type="checkbox"/> Portable <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Base station (fixed use)
Intended Operating Environment:	<input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial, industrial or business environment
Power Supply Requirement:	12VDC to 28VDC Nominal
RF Output Power Rating:	30dBm max, limit to what passes
Operating Frequency Range:	2405MHz to 2480MHz
RF Output Impedance:	50 ohms
Channel Spacing (if applicable):	5MHz typical
Duty Cycle:	<10%
Modulation(s):	70% typical
*Emission Designator(s): *Emission Designator Tool can be found at IC website https://strategis.ic.gc.ca/app/secure/sitt/reltel/displayPublicEmDesignatorTool.do?lang=eng	
Oscillator Frequency(ies):	16MHz
Temperature Ratings (Degree C)	-40 deg C to +85 deg C
Antenna Connector Type:	<input type="checkbox"/> BNC <input type="checkbox"/> N <input type="checkbox"/> TNC <input checked="" type="checkbox"/> U.FL <input type="checkbox"/> Integral <input checked="" type="checkbox"/> Other, Specify: U.FL(2.4GHz)
Antenna Description (if more than one antenna, provide a list of all the antennas to be used with the device):	
Manufacturer:	Ethertronics Inc.
Type:	Stamped metal
Model:	N/A
Frequency Range:	2405 to 2475MHz
Impedance:	50 ohm nominal (915MHz), 50ohm nominal(2.4GHz)
Gain (dBi):	-0.6
2.4GHz ZigBee - RECEIVER	
Equipment Type:	<input type="checkbox"/> Portable <input checked="" type="checkbox"/> Mobile <input type="checkbox"/> Base station (fixed use)
Power Supply Requirement:	12VDC to 28VDC Nominal
Operating Frequency Range:	2405MHz to 2480MHz
RF Input Impedance:	50 ohms
Intermediate Frequency(ies):	

Oscillator Frequency(ies):	16MHz
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List of EUT's Ports:				
Port Number	EUT's Port Description	Number of Identical Ports	Connector Type	Cable Type (Specify minimum length and shielded/non-shielded)
1a	Wired Power and Diagnostics	1	Weather tight 6pos Deutsch	12 inches, 6 conductor, non shielded RS-485
1b	Power Cable with Trigger Wire	1	Free Wire Ends	2 meters, 3 conductor, non-shielded
3				
4				
5				
6				
7				
8				
9				
10				

NOTES:

Ports, which are not connected to cables during normal intended operation (for factory/technical services uses only):

[] None

OR

List all EUT ports not connected during tests	Explanation

Ancillary Equipment: Please complete the following.			
Index Number	Ancillary Equipment	Part Number / Model Number	Serial Number
1	Display Unit for receiving tag information from Antenna Box	Display Unit / Indicator Box	00:1C:2C:28:09:FF:DF:EC
2			
3			
4			
5			
6			
7			
8			
9			
10			

Block Diagram of EUT (with all ports and connected wires identified under normal intended operation)

