



FCC / ISED Evaluation Report

FOR:

Xirgo Technologies, LLC

Model Name:

XT4971A

Product Description:

Solar Energy Harvesting Smart Trailer Solution

FCC ID: GKM-XT4971A

IC ID: 10281A-XT4971A

Applied Rules and Standards:

47 CFR Part 15.247 (DSS)

RSS-247 Issue 2 (FHSs) & RSS-Gen Issue 4

REPORT #: EMC_XIRGO_117_17001_15.247_ISED_BT_DSS

DATE: 02/02/2018



A2LA Accredited

IC recognized #
3462B-1

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1 **Assessment**

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

No deviations were ascertained.

Company	Description	Model #
Xirgo Technologies, LLC	Solar Energy Harvesting Smart Trailer Solution	XT4971A

Responsible for Testing Laboratory:

02/02/2017	Compliance	James Donnellan (Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

12/18/2017	Compliance	Issa Ghanma (EMC Engineer)	
Date	Section	Name	Signature

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Evaluation Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
Lab Manager:	James Donnellan
Responsible Project Leader:	Ruther Navarro

2.2 Identification of the Client

Applicant's Name:	Xirgo Technologies, LLC
Street Address:	188 Camino Ruiz
City/Zip Code	Camarillo, CA 93012
Country	USA
Contact Person:	Shawn Aleman
Phone No.	805-426-5243
e-mail:	Saleman@Xirgotech.com

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Applicant
Manufacturers Address:	-----
City/Zip Code	-----
Country	-----

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No	XT4971A
HW Version	XT4971A-001
SW Version	XT4971A-01
FCC-ID:	GKM-XT4971A
IC-ID:	10281A-XT4971A
FWIN:	N/A
HVIN:	N/A
PMN:	XT4971A
Product Description	Solar Energy Harvesting Smart Trailer Solution
Frequency Range / number of channels:	Nominal band: 2400 MHz – 2483.5 MHz Center to center: 2402 MHz (ch 0) – 2480 MHz (ch 78)
Type(s) of Modulation:	Bluetooth Classic: FHSs
Modes of Operation:	Hopping
Antenna Information as declared:	On board Antenna from Johanson Technologies, PN 2450A100E with a typical gain of 0.5 peak and -0.5 dBi average.
Max. output Powers From Report #:101978620LEX-003	Conducted Power 11.219dBm Radiated Power: Peak 61.38dBm Average 53.68dBm
Power Supply/ Rated Operating Voltage Range:	8 VDC – 24 VDC
Operating Temperature Range	-40° to 70° C
Other Radios included in the device:	Bluetooth Low Energy: TI's CC2564 single chip module ZigBee: TI's CC2530 in conjunction with TI's CC2591 LNA/PA chip Cellular: Ublox TOBY-R202

Sample Revision	☐ Prototype Unit; ☐ Production Unit; ☒ Pre-Production
EUT Dimensions	8.45" x 4.73" x 1.06" (21.5 cm x 12 cm x 2.6 cm)

3.2 EUT Sample details

EUT #	Serial Number	HW Version	SW Version	Notes/Comments
1	SN1	XT4971A-001	XT4971A-01	-----

4 Subject of Investigation

The objective of the evaluation done by CETECOM Inc. was to assess the test results provided in Inertek report#101978620LEX-003 as well as the design specification model XT4971A/ FCC ID: GKM-XT4971A IC ID: 10281A-XT491A determine whether these results are also applicable for model XT4971A FCC ID: GKM-XT4971A IC ID: 10281A-XT491A.

These test results were used to determine that FCC ID: GKM-XT4971A IC ID: 10281A-XT491A model XT4971A is compliant to FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 Issue 2 of ISED Canada.

5 Revision History

Date	Report Name	Changes to report	Report prepared by
02/02/2018	EMC_XIRGO_117_17001_15.247_ISED_BT_DSS	Initial Version	Issa Ghanma