



## 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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CETECOM Inc. is a Delaware Corporation with Corporation number: 2905571



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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.

<b>Company</b>	<b>Description</b>	<b>Model #</b>
Xirgo Technologies, LLC	Solar Energy Harvesting Smart Trailer Solution	XT4971A

**Responsible for Testing Laboratory:**

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

**Responsible for the Report:**

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



## 2 Administrative Data

### 2.1 Identification of the Testing Laboratory Issuing the EMC Evaluation Report

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

### 2.2 Identification of the Client

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

### 2.3 Identification of the Manufacturer

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

### 3 Equipment Under Test (EUT)

#### 3.1 EUT Specifications

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

<b>Sample Revision</b>	<input type="checkbox"/> Prototype Unit; <input type="checkbox"/> Production Unit; <input checked="" type="checkbox"/> Pre-Production
<b>EUT Dimensions</b>	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