Manuals+
Q & A | Deep Search | Upload

Defender IP8MCB3-64

Defender AI Powered Guard Pro 4K Wireless Security Camera User Manual

Model: IP8MCB3-64

Introduction

The Defender AI Powered Guard Pro 4K Wireless Security Camera system provides advanced surveillance for your home or business. Featuring 4K Ultra HD resolution, AI-powered human and vehicle detection, color night vision, and two-way audio, this system is designed for comprehensive and reliable security monitoring. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your security cameras.

Image: Three Defender AI Powered Guard Pro 4K wireless security cameras, each with two antennas and a spotlight, shown alongside three 64GB Micro SD cards. These cameras are designed for outdoor use and offer advanced security features.

What's Included

Verify that all components are present in your package before beginning installation.

Image: A visual representation of all items included in the Defender AI Powered Guard Pro 4K security camera package. This includes three cameras with 64GB SD cards, power supplies, extension cables, mounting hardware, drilling templates, window warning stickers, a warranty registration insert, and a quick start guide.

- 3x Defender 4K 8MP Night Vision Cameras with 64GB SD Cards
- 3x Camera Power Supply (10ft)
- 3x Camera Power Extension Cables (25ft)
- 3x Ethernet Waterproof Cable Shield
- 3x Camera Mounting Hardware (screws and wall anchors)
- 3x Drilling Template
- 3x Window Warning Stickers (5x3in)
- Warranty Registration Insert
- Quick Start Guide

Setup and Installation

The Defender Guard Pro cameras are designed for easy DIY setup. Ensure you have a 2.4 GHz Wi-Fi network available for connection, as the system does not support 5 GHz networks.

1. Planning Your Installation

1. **Location:** Choose outdoor locations that provide optimal viewing angles and are within range of your Wi-Fi signal. Consider areas like entry points, driveways, and backyards.
2. **Power:** Ensure a power outlet is accessible for each camera, or plan to use the provided extension cables.
3. **Wi-Fi Signal:** Test the Wi-Fi signal strength at your chosen installation spots using your smartphone to ensure reliable connectivity.

2. Initial Setup and App Connection

1. **Download the App:** Download the "Defender Guard" app from your smartphone's app store (iOS or Android).
2. **Create Account:** Open the app and follow the on-screen instructions to create a new account or log in.
3. **Power On Camera:** Plug in one camera to a power outlet near your Wi-Fi router for initial setup.
4. **Add Device:** In the app, select "Add Device" and follow the prompts to connect your camera to your 2.4 GHz Wi-Fi network. The app will guide you through the pairing process, which typically involves scanning a QR code on the camera.
5. **Repeat:** Repeat the process for all additional cameras.

Image: A smartphone displaying the Defender Guard app, indicating a successful device addition. The screen shows "Device added successfully!" and prompts to name the device, with "Guard Pro 4K" as a suggestion. WiFi 6 and Bluetooth icons are prominently displayed above, signifying the camera's connectivity features.

3. Mounting the Cameras

1. **Mark Drilling Points:** Use the provided drilling template to mark the screw holes on your chosen mounting surface (wall or ceiling).
2. **Drill Holes:** Drill pilot holes at the marked points. Insert wall anchors if mounting into drywall or masonry.
3. **Secure Mount:** Attach the camera's mounting base to the surface using the provided screws.
4. **Adjust Angle:** Once mounted, adjust the camera's angle to cover the desired area. The camera can be rotated horizontally and vertically. Ensure the camera is tightened securely after adjustment.
5. **Connect Power:** Connect the camera to its power supply. Use the waterproof cable shield for outdoor installations to protect connections.

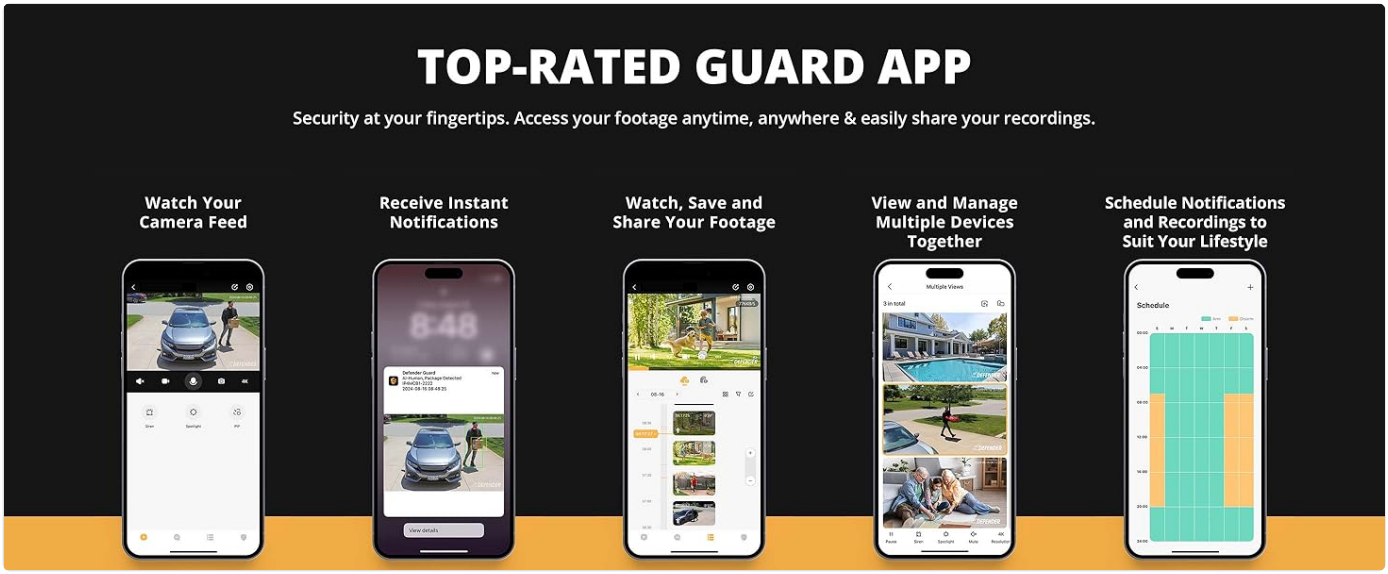


Image: A person using a screwdriver to mount a white Defender security camera onto the exterior siding of a house. This illustrates the manual wall/ceiling mount installation process.

Operating Your Camera System

The Defender Guard Pro system is managed primarily through the Defender Guard mobile application.

Live View and Playback

- **Access Live Feed:** Open the Defender Guard app and select the desired camera to view its live feed.
- **Playback Recordings:** Access recorded footage stored on the 64GB SD card or through Guard CLOUD (if subscribed) via the app's playback feature.

AI Detection and Alerts

The cameras feature advanced AI for human and vehicle detection, minimizing false alarms.

- **Instant Notifications:** Receive real-time alerts on your smartphone when human or vehicle activity is detected.
- **Customization:** Adjust detection zones and sensitivity settings within the app to suit your specific monitoring needs.

Image: A smartphone screen displaying a notification from the Defender Guard app, indicating "Human body detected" at the "Front Door." Icons for AI-powered, human, and vehicle detection are shown, highlighting the camera's smart detection capabilities.

Color Night Vision and Deterrence

The cameras provide clear color night vision and active deterrence features.

- **Full Color Night Vision:** Built-in spotlights illuminate the scene, enabling full-color video recording even in low-light conditions up to 100 feet.
- **Siren and Spotlight:** Manually activate the high-intensity strobe lights and loud siren from the app to deter intruders.

Image: A split image demonstrating "VIBRANT TRUE COLOR NIGHT VISION." The top panel shows a scene in "Full Color Mode" at night, clearly showing a person. The bottom panel shows the same scene in "Infrared Mode," which is black and white. This highlights the camera's ability to capture color footage in low light.

Image: A Defender security camera mounted outdoors at night, with its spotlight actively illuminating the area. A smartphone screen in the foreground shows the live feed from the camera, demonstrating the "LIGHTNING QUICK SIREN & SPOTLIGHT DETERRENCE" feature and up to 100ft night vision.

Two-Way Talk

Communicate directly with visitors or deter unwanted guests using the camera's built-in microphone and speaker.

- **Activate Two-Way Talk:** Tap the microphone icon in the app's live view to speak through the camera.
- **Listen:** The camera's microphone captures audio from its surroundings, allowing you to hear what's happening.

Image: A hand holding a smartphone displaying the Defender Guard app interface. The screen shows a live view from the camera and speech bubbles indicating two-way communication, with phrases like "Ok, See you soon" and "We are not home," illustrating the "TWO-WAY TALK WITH GUARD APP, ANYWHERE!" feature.

Guard CLOUD and App Features

Enhance your security with Guard CLOUD for advanced features and storage.

- **Cloud Storage:** Guard CLOUD offers unlimited storage for your recordings (subscription may be required).
- **AI Reports:** Access detailed reports on detected events.
- **Sharing:** Easily share recordings with family or authorities directly from the app.
- **Multi-Device Management:** View and manage multiple Defender devices from a single app interface.

Image: A series of five smartphone screenshots showcasing the "TOP-RATED GUARD APP" features. These include watching live camera feed, receiving instant notifications, watching, saving, and sharing footage, viewing and managing multiple devices, and scheduling notifications to suit lifestyle, demonstrating the app's comprehensive functionality.

Maintenance

Proper maintenance ensures the longevity and optimal performance of your Defender security cameras.

- **Lens Cleaning:** Periodically clean the camera lens with a soft, damp cloth to remove dust, dirt, or water spots that may obstruct the view. Avoid abrasive cleaners.
- **Firmware Updates:** Check the Defender Guard app regularly for firmware updates. Keeping your camera's firmware up-to-date ensures access to the latest features and security enhancements.
- **SD Card Management:** If not using cloud storage, regularly review and manage recordings on the 64GB SD card to prevent it from becoming full. The camera typically overwrites older footage when the card is full.
- **Power Connection:** Ensure the power connection remains secure and free from moisture, especially for outdoor installations. The included waterproof cable shield should be properly utilized.
- **Weather Resistance:** The cameras are IP67 weather-rated, meaning they are protected against dust and temporary immersion in water. However, avoid directing high-pressure water jets directly at the camera.

Image: A Defender security camera mounted outdoors, with water droplets visible on its surface, illustrating its "IP67 WEATHER-RATED METAL CAMERAS" feature. The image also shows temperature ranges from -30°C (-22°F) to 50°C (122°F), indicating its durability in various weather conditions.

Troubleshooting

If you encounter issues with your Defender AI Powered Guard Pro camera system, refer to the following common solutions.

Problem	Possible Cause / Solution

Problem	Possible Cause / Solution
Camera offline / Cannot connect to Wi-Fi	◦ Ensure the camera is powered on and the power adapter is securely connected. ◦ Verify your Wi-Fi network is 2.4 GHz. The camera does not support 5 GHz networks. ◦ Check Wi-Fi signal strength at the camera's location. Move the camera closer to the router if necessary. ◦ Restart your Wi-Fi router and the camera. ◦ Re-add the camera through the Defender Guard app.
Poor video quality / Blurry image	◦ Clean the camera lens with a soft, lint-free cloth. ◦ Ensure there are no obstructions in front of the lens. ◦ Check your internet connection speed. A slow connection can affect streaming quality. ◦ Verify the camera is set to 4K resolution in the app settings.
No motion detection alerts	◦ Ensure motion detection is enabled in the Defender Guard app settings for the specific camera. ◦ Adjust detection sensitivity and detection zones in the app. ◦ Check your app notification settings on your smartphone to ensure notifications are allowed for the Defender Guard app. ◦ Ensure the camera's view is not obstructed.
Two-way talk not working	◦ Ensure your smartphone's microphone is enabled for the Defender Guard app. ◦ Check the volume settings on your smartphone and within the app. ◦ Verify the camera's microphone and speaker are not physically obstructed. ◦ Ensure a stable internet connection for real-time audio transmission.
SD card not recording / "No storage" message	◦ Ensure the 64GB Micro SD card is correctly inserted into the camera. ◦ Format the SD card through the app settings. This will erase all existing data. ◦ If the issue persists, the SD card may be defective and require replacement.

SPECIFICATIONS

Detailed technical specifications for the Defender AI Powered Guard Pro 4K Camera.

Feature	Detail
Model Name	4K Guard Pro
Model Number	IP8MCB3-64
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4K (3840 × 2160)
Effective Still Resolution	8 MP
Connectivity Technology	Wireless (Wi-Fi 6, Bluetooth)

Feature	Detail
Connectivity Protocol	802.11b/g/n/ax (2.4 GHz only)
Power Source	Plug-in Powered (12 Volts, 12 Watts)
Controller Type	App (Defender Guard)
Viewing Angle	102 Degrees
Night Vision Range	100 Feet (Full Color/Smart/IR)
Frame Rate	25 fps
Material	Metal, Plastic
Water Resistance Level	IP67 Rated
Flash Memory Installed Size	64 GB (Micro SD)
Audio Visual Recording	Built-in Mic & Speaker (2-way audio)
Video Encoding	H.264 / H.265
Zoom Type	Digital Zoom (8x)
Alert Type	Motion detection alert via app (AI Human & Vehicle Detection)
Product Dimensions	10.4 x 5.8 x 5.2 inches
Item Weight	10.4 ounces

Image: A side-by-side comparison of video quality, labeled "1080P" on the left and "ClearVu 4K" on the right. The 4K image shows significantly more detail and clarity, demonstrating the superior resolution of the Defender Guard Pro camera.

Warranty and Support

Defender provides comprehensive support for its products.

Warranty Information

To activate your product warranty and for detailed warranty terms and conditions, please visit the official Defender website:

Activate Your Warranty Here

Image: A close-up of the "Activate Your Warranty" insert included in the product package. It features a QR code and the website address defendercameras.com/warranty, guiding users to register their product.

It is recommended to register your product to ensure you receive all applicable warranty benefits and support.

Customer Support

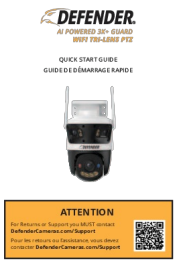
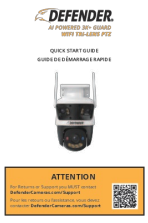
Defender offers free lifetime customer support for its products. For technical assistance, troubleshooting not covered in this manual, or general inquiries, please refer to the contact information provided in your Quick Start Guide or visit the Defender website for support resources.

Online Resources: Visit the Defender support page for FAQs, video tutorials, and contact options.

App Support: The Defender Guard app may also offer in-app support features or direct links to customer service.

© 2024 Defender. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

Related Documents

	Defender AI Powered 3K+ Guard WIFI Tri-Lens PTZ Camera Quick Start Guide Get started quickly with the Defender AI Powered 3K+ Guard WIFI Tri-Lens PTZ Camera. This guide covers setup, features, mounting, and FAQs for your security system.
	Defender Guard Pro Quick Start Guide: Setup and Features A comprehensive guide to setting up and using the Defender Guard Pro security camera, covering installation, Wi-Fi connection, app usage, motion detection, recording, and frequently asked questions.
	Defender GO 2K AI Security Camera Quick Start Guide Get started quickly with your Defender GO 2K AI-powered security camera. This guide covers setup, app usage, and important regulatory information for your indoor/outdoor home, business, baby, and pet monitoring needs.
	Defender 3K+ Guard Pro WIFI Tri-Lens PTZ Camera Quick Start Guide A comprehensive guide to setting up and using the Defender 3K+ Guard Pro WIFI Tri-Lens PTZ Camera, including installation, app connection, cloud storage, and troubleshooting.

Empowerment Technologies Inc.

Address: 590 York Rd., Unit 2 Niagara-on-the-Lake ON L0S 1J0 Canada

Confirmation Letter

We, Empowerment Technologies Inc.
The product: DEFENDER
And model No.: IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;IP8MCB3-64;IP8MCB4-64, IP8MCB1-32, IP8MCB1-128

FCC ID: 2AV6B-IP8MCB1
IC: 26035-IP8MCB1

IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;IP8MCB3-64;IP8MCB4-64, IP8MCB1-32, IP8MCB1-128 have the same technical construction including circuit diagram, PCB Layout, components and component layout, all electrical construction and mechanical construction. The difference lies only the model number.

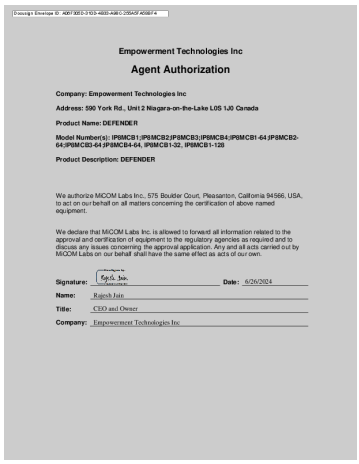
Contact Name: Rajesh Jain
Title of Person: CEO and Owner
Date: 6/26/2024

[pdf] Decleration of Conformity Diagram

Liu Susan Declaration letter IP8MCB1 doc ULCC29 497 4286253 Empowerment Technologies Inc DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

Docusign Envelope ID: B6D35F85-C340-49C3-BFCD-7E99AD158D93 Empowerment Technologies Inc. Address: 59 ... gies Inc. The product: DEFENDER And model No.: IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB264;**IP8MCB3-64**;IP8MCB4-64, IP8MCB1-32, IP8MCB1-128 FCC ID: 2AV6B-IP8MCB1 IC: 26035-IP8MCB1 IP8MCB1;IP8MC...

lang:en score:23 filesize: 184.98 K page_count: 1 document date: 2024-07-22



Empowerment Technologies Inc

Agent Authorization

Company: Empowerment Technologies Inc

Address: 590 York Rd., Unit 2 Niagara-on-the-Lake L0S 1J0 Canada

Product Name: DEFENDER

Model Number(s): IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;IP8MCB3-64;IP8MCB4-64, IP8MCB1-32, IP8MCB1-128

Product Description: DEFENDER

We authorize MiCOM Labs Inc., 575 Boulder Court, Pleasanton, California 94566, USA, to act on our behalf on all matters concerning the certification of above named equipment.

We declare that MiCOM Labs Inc. is allowed to forward all information related to the approval and certification of equipment to the regulatory agencies as required and to discuss any issues concerning the approval application. Any and all acts carried out by MiCOM Labs on our behalf shall have the same effect as acts of our own.

Signature: _____ **Date:** 6/26/2024

Name: Rajesh Jain

Title: CEO and Owner

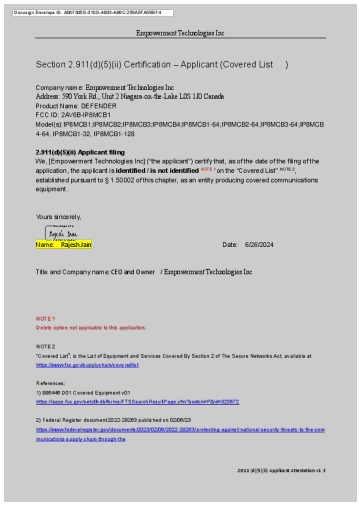
Company: Empowerment Technologies Inc

[pdf] Agent Authorization

PLEASE PRINT ON COMPANY LETTERHEAD MiCOM Labs Inc QMS Agent Authorization Empowerment Technologies IP8MCB1 DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

Docusign Envelope ID: A06F305D-310D-4B33-A98C-255A5FA58BF4 Empowerment Technologies Inc Agent Autho ... Canada Product Name: DEFENDER Model Number s : IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB264;**IP8MCB3-64**;IP8MCB4-64, IP8MCB1-32, IP8MCB1-128 Product Description: DEFENDER We authorize MiCOM Lab...

lang:en score:21 filesize: 159.3 K page_count: 1 document date: 2024-07-22



Empowerment Technologies Inc

Section 2.911(d)(5)(ii) Certification – Applicant (Covered List)

Company name: Empowerment Technologies Inc
Address: 590 York Rd., Unit 2 Niagara-on-the-Lake L0S 1J0 Canada
Product Name: DEFENDER
FCC ID: 2AV6B-IP8MCB1
Model(s): IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;IP8MCB3-64;IP8MCB 4-64, IP8MCB1-32, IP8MCB1-128

2.911(d)(5)(ii) Applicant filing

We, (Empowerment Technologies Inc) ("the applicant") certify that, as of the date of the filing of the application, the applicant is **identified / is not identified** NOTE 1 on the "Covered List" NOTE 2, established pursuant to § 1.50002 of this chapter, as an entity producing covered communications equipment.

Yours sincerely,

Name: Rajesh Jain Date: 6/26/2024

Title and Company name: CEO and Owner / Empowerment Technologies Inc

NOTE 1
Delete option not applicable to this application.

NOTE 2
"Covered List", is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at https://www.fcc.gov/supplychain/coverlist

References:
1) 986446 D01 Covered Equipment v01
https://apps.fcc.gov/kdb/GetAttachment.html?id=qfeFT3SearchPassAPage.cfm?mode=PS&id=326672

2) Federal Register: document2022-26263 published on 02/06/23
https://www.federalregister.gov/documents/2023/02/06/2022-26263/protecting-against-national-security-threats-to-the-communications-supply-chain-through-the

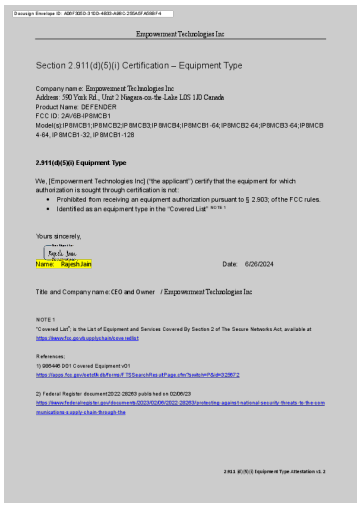
2911 (d)(5)(ii) Applicant attestation v1.3

[pdf]

dell990 Certificiation Applicant Empowerment Technologies Inc IP8MCB1 DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

Docusign Envelope ID: A06F305D-310D-4B33-A98C-255A5FA58BF4 Empowerment Technologies Inc Section 2.9 ... Name: DEFENDER FCC ID: 2AV6B-IP8MCB1 Model s :IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;**IP8MCB3-64**;IP8MCB 4-64, IP8MCB1-32, IP8MCB1-128 2.911 d 5 ii Applicant filing We, Empowerment Te...

lang:en score:21 filesize: 493.65 K page_count: 1 document date: 2024-07-22



Empowerment Technologies Inc

Section 2.911(d)(5)(i) Certification – Equipment Type

Company name: Empowerment Technologies Inc
Address: 590 York Rd., Unit 2 Niagara-on-the-Lake L0S 1J0 Canada
Product Name: DEFENDER
FCC ID: 2AV6B-IP8MCB1
Model(s):IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;IP8MCB3-64;IP8MCB 4-64, IP8MCB1-32, IP8MCB1-128

2.911(d)(5)(i) Equipment Type

We, [Empowerment Technologies Inc] ("the applicant") certify that the equipment for which authorization is sought through certification is not:

- Prohibited from receiving an equipment authorization pursuant to § 2.903; of the FCC rules.
- Identified as an equipment type in the "Covered List". NOTE 1

Yours sincerely,

Name: Rajesh Jain Date: 6/26/2024

Title and Company name: CEO and Owner / Empowerment Technologies Inc

NOTE 1
"Covered List", is the List of Equipment and Services Covered By Section 2 of The Secure Networks Act, available at https://www.fcc.gov/supplychain/coverlist

References:
1) 986446 D01 Covered Equipment v01
https://apps.fcc.gov/eas/comments/GenericSearchResultPage.cfm?switchMPSelect2=2&C2

2) Federal Register document 2022-28263 published on 02/06/23
https://www.federalregister.gov/documents/2023/02/06/2022-28263/protecting-against-national-security-threats-to-the-communications-supply-chain-through-the

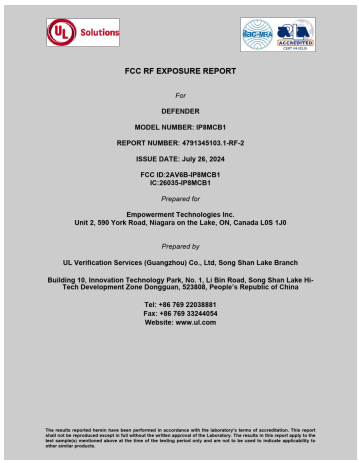
2.911 (d)(5)(i) Equipment Type Attestation v1.2

[pdf]

dell990 Certification Equipment Type Empowerment Technologies Inc IP8MCB1 DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

Docusign Envelope ID: A06F305D-310D-4B33-A98C-255A5FA58BF4 Empowerment Technologies Inc Section 2.9 ... Name: DEFENDER FCC ID: 2AV6B-IP8MCB1 Model s :IP8MCB1;IP8MCB2;IP8MCB3;IP8MCB4;IP8MCB1-64;IP8MCB2-64;**IP8MCB3-64**;IP8MCB 4-64, IP8MCB1-32, IP8MCB1-128 2.911 d 5 i Equipment Type We, Empowerment Tech...

lang:en score:21 filesize: 504.43 K page_count: 1 document date: 2024-07-22



FCC RF EXPOSURE REPORT

For

DEFENDER

MODEL NUMBER: IP8MCB1

REPORT NUMBER: 4791345103.1-RF-2

ISSUE DATE: July 26, 2024

FCC ID:2AV6B-IP8MCB1
IC:26035-IP8MCB1

Prepared for

Empowerment Technologies Inc.
Unit 2, 590 York Road, Niagara on the Lake, ON, Canada L0S 1J0

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881
Fax: +86 769 33244054
Website: www.ul.com

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products.

[pdf] SAR Rating

Zhang Kebo Underwriters Laboratories Inc MPE Empowerment Technologies IP8MCB1 DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

FCC RF EXPOSURE REPORT For DEFENDER MODEL NUMBER: IP8MCB1 REPORT NUMBER: 4791345103.1-RF-2 ISSUE DAT ... e Status: Sample ID: Date of Tested: DEFENDER IP8MCB1 IP8MCB2,IP8MCB3,IP8MCB4,IP8MCB1-64,IP8MCB264,**IP8MCB3-64**,IP8MCB4-64IP8MCB1-32IP8MCB1-128 June 4, 2024 Normal 7289960 June 28, 2024 to July 26, 202...

lang:en score:19 filesize: 438.84 K page_count: 8 document date: 2024-07-30

Tech Development Zone Dongguan, 523808, People's Republic of China

The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall

[pdf] Test Report

Mike Heckrotte Test report Empowerment Technologies Inc IP8MCB1 DEFENDER 2AV6B 2AV6BIP8MCB1 ip8mcb1

CFR 47 FCC PART 15 SUBPART C ISED RSS-247 Issue 3 TEST REPORT For DEFENDER MODEL NUMBER: IP8MCB1 REP ... e Status: Sample ID: Date of Tested: DEFENDER IP8MCB1 IP8MCB2,IP8MCB3,IP8MCB4,IP8MCB1-64,IP8MCB264,**IP8MCB3-64**,IP8MCB4-64IP8MCB1-32IP8MCB1-128 June 4, 2024 Normal 7289960 June 28, 2024 to July 26, 202...

lang:en score:12 filesize: 4.8 M page_count: 105 document date: 2024-07-30