

Xhorse Key Tool Max Pro



Xhorse Key Tool Max Pro User Manual

Model: Key Tool Max Pro

[Introduction](#)

[What's in the
Box](#)

[Setup](#)

[Specifications](#)

[Operating
Instructions
Warranty &
Support](#)

[Maintenance](#)

[Troubleshooting](#)

1. INTRODUCTION

The Xhorse Key Tool Max Pro is a professional, all-in-one automotive diagnostic and key programming device designed for locksmiths and automotive technicians. It integrates the functions of Key Tool Max and Mini OBD Tool, offering advanced capabilities such as IMMO programming, remote generation and cloning, transponder identification, and specialized functions like battery leakage and voltage detection. With its built-in OBD module and user-friendly interface, the Key Tool Max Pro provides a comprehensive solution for various automotive key and immobilizer tasks.



Figure 1: Xhorse Key Tool Max Pro device and included accessories.

2. WHAT'S IN THE BOX

Upon opening the package, please verify that all the following items are included:

- 1pc x KEY TOOL MAX PRO device
- 1pc x OBD to DB15 cable with light
- 1pc x Remote programming cable
- 1pc x Leakage detection cable
- 1pc x User Manual

Support Over 6000 Vehicle Remotes And 100 Models Garage Remotes



Figure 2: Visual representation of the package contents, including the Key Tool Max Pro device, various cables, and documentation.

3. SETUP

Before using your Xhorse Key Tool Max Pro, ensure the device is fully charged and updated to the latest firmware. The device supports USB charging and can also be charged via the OBD cable when connected to a vehicle.

3.1 Connecting the OBD Module

The Key Tool Max Pro features a built-in OBD module for direct connection to a vehicle's OBD-II port. This allows for easy IMMO programming and other diagnostic functions.

1. Locate the OBD-II port in your vehicle (typically under the dashboard on the driver's side).
2. Connect the OBD to DB15 cable with light to the OBD port on the Key Tool Max Pro device.
3. Plug the other end of the OBD cable into your vehicle's OBD-II port. The integrated LED light on the cable assists in locating the port in low-light conditions.



Figure 3: The Key Tool Max Pro connected to the OBD module, ready for vehicle communication.

4. OPERATING INSTRUCTIONS

The Xhorse Key Tool Max Pro offers a wide range of functions accessible through its intuitive touchscreen interface. Below are detailed instructions for common operations.

Main Functions



Figure 4: Overview of the main functions available on the Key Tool Max Pro's interface.

4.1 Remote Charge Battery

This function allows you to charge rechargeable keys, such as those found in older BMW EWS series vehicles, directly using the Key Tool Max Pro.

1. From the main menu, navigate to **Special Function**.
2. Scroll down and select **Remote Charge Battery**.
3. Insert the rechargeable key into the designated slot on the top of the Key Tool Max Pro device.
4. Follow the on-screen prompts and click **OK** to begin charging. The device will display the charging progress.

Your browser does not support the video tag.

Video 1: Demonstrates how to use the Xhorse Key Tool Max Pro for remote key charging, leakage current detection, and voltage testing.

4.2 Leakage Current and Voltage Detection

The Key Tool Max Pro can detect battery leakage current and voltage, which is crucial for diagnosing issues with remote keys and vehicle batteries.

4.2.1 Leakage Current Test

1. Connect the Leakage Detection Cable to the designated port on the Key Tool Max Pro.
2. From the main menu, go to **Special Function** and select **Leakage Detection and Voltage Detection**.
3. Choose **Leakage Detection** and click **OK**.
4. Touch the probes of the cable to the appropriate points on the key chip to be tested. The device will display the leakage current value.

4.2.2 Voltage Test

1. Ensure the Leakage Detection Cable is connected to the device.
2. From the main menu, go to **Special Function** and select **Leakage Detection and Voltage Detection**.
3. Choose **Voltage Detection** and click **OK**.
4. Touch the black probe to the negative terminal and the red probe to the positive terminal of the battery (e.g., a coin cell battery or vehicle battery). The device will display the voltage reading.

Transponder Identification & Clone

Identifiable Editable Cloneable

11	✓	-	✓
12	✓	-	✓
13	✓	-	✓
30	✓	-	-
33	✓	-	✓
42	✓	-	✓
46	✓	✓	✓
4C	✓	-	✓
4D-60	✓	✓	✓
4D-61	✓	✓	✓
4D-62	✓	✓	✓
4D-63	✓	✓	✓
4D-65	✓	✓	✓

*Partially Supported

*Supporting Toyota H transponder

4D-67	✓	✓	✓
4D-68	✓	✓	✓
4D-69	✓	✓	✓
4D-72 G	✓	✓	✓
4E-64	✓	-	✓
49	✓	-	-
4D-70	✓	✓	✓
4D-83	✓	✓	✓
48	✓	✓	✓
4A	✓	-	-
8C	✓	-	✓
8A	✓	-	✓

Figure 5: The Key Tool Max Pro performing battery leakage and voltage detection.



Figure 6: Close-up of the battery leakage detection process.

4.3 IMMO Programming

The Key Tool Max Pro supports immobilizer programming for thousands of car models, including advanced CAN_FD models. This function allows for adding new keys, programming transponders, and other immobilizer-related tasks.

- Supports CAN_FD models such as Cadillac CT4/CT5, Buick GL8, Encore, Chevrolet Cavalier, Trax.
- Free IMMO programming for BMW CAS3+ & lower modules (CAS1, CAS2, CAS3/CAS3+, EWS IMMO systems, ECU ISN, Instrument mileage repair).
- Supports partial Toyota 8A/4D Add Key/All Key Lost for models like Corolla, Camry, Crown, Highlander, Lexus, LEVIN, Hiraks, RAV4, REIZ, VIOS, PRADO/LAND CRUISER.

Battery Leakage Detection and Voltage Detection



Figure 7: IMMO programming being performed in a vehicle using the Key Tool Max Pro.

4.4 Remote Generate and Clone

The device can generate and clone remote keys for a vast number of vehicles and garage doors.

- Supports HCS/Fixed code cloning, non-HCS rolling code cloning (PT22XX, LX918, HT6P20, VD5026, AX5326,

HT12X fixed code editing).

- Generates remotes for over 6000 vehicle remotes from 200 car brands worldwide.
- Generates garage remotes for over 100 models.
- Requires Xhorse Super Remote or Super Chip for optimal performance in transponder cloning or remote generation.



Figure 8: The Key Tool Max Pro's extensive support for vehicle and garage remotes.

4.5 Transponder Identification and Clone

The Key Tool Max Pro supports identification and cloning of most immobilizer transponders on the market.

- Supports ID46, ID48 (96bits), and Toyota 8A/8H transponder online calculation.

Accessories



1pc x OBD to DB15
cable with light



1pc x Remote
programming cable



1pc x Leakage
detection cable



1pc x USB cable

Package



1pc x Box



1pc x User manual



1pc x Package



1pc x Certificate



Figure 9: Chart detailing the identifiable, editable, and cloneable transponder types supported by the device.

4.6 Integration with Xhorse Key Cutting Machines

The Key Tool Max Pro can seamlessly integrate with Xhorse key cutting machines, streamlining the key duplication and programming process.



Figure 10: The Key Tool Max Pro connected to an Xhorse key cutting machine for comprehensive key services.

4.7 Additional Functions Overview

The Key Tool Max Pro is designed as a one-stop platform, offering a variety of other useful features:

- **Maintenance:** Access various vehicle maintenance functions.
- **Immo Data Tool:** Tools for managing immobilizer data.
- **Special Function:** A menu for advanced and specific operations.
- **Frequency Detection:** Detects the frequency of remote keys.
- **One-Stop Platform:** Provides access to news, product information, shop, support center, video center, technical articles, vehicle IMMO information, and feedback options.

Your browser does not support the video tag.

Video 2: An introductory video highlighting the various features and capabilities of the Xhorse Key Tool Max Pro.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Xhorse Key Tool Max Pro, follow these maintenance guidelines:

- **Regular Updates:** Connect the device to Wi-Fi and regularly check for firmware and software updates through the "Update" section on the device. Keeping the software current ensures access to the latest vehicle models and functions.
- **Cleaning:** Use a soft, dry cloth to clean the device's screen and body. Avoid using abrasive cleaners or solvents that could damage the surface.
- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Use the provided carrying case for protection during transport and storage.
- **Battery Care:** Avoid completely draining the battery frequently. Charge the device regularly, especially if it will be stored for an extended period. The device contains 1 Lithium Ion battery (included).
- **Cable Inspection:** Periodically inspect all cables (OBD, remote programming, leakage detection, USB) for any signs of wear, fraying, or damage. Replace damaged cables immediately to prevent malfunction or safety hazards.

6. TROUBLESHOOTING

This section addresses common issues you might encounter with your Key Tool Max Pro. If you experience problems not listed here, please refer to the Technical Support section.

6.1 Device Not Powering On

- Ensure the device is fully charged. Connect it to a power source using the USB cable and allow it to charge for at least 30 minutes.
- Press and hold the power button for several seconds to ensure it's not just in sleep mode.

6.2 Connection Issues with Vehicle (OBD)

- Verify that the OBD cable is securely connected to both the Key Tool Max Pro and the vehicle's OBD-II port.
- Ensure the vehicle's ignition is in the ON position (or engine running, as required by the specific function).
- Check the vehicle's battery voltage. Low voltage can sometimes prevent communication.
- Try connecting to a different vehicle (if available) to rule out a vehicle-specific issue.

6.3 Remote/Transponder Programming Failure

- Ensure you are using compatible Xhorse Super Chips or Super Remotes as recommended for certain functions.
- Verify that the correct vehicle model and year are selected in the device's software.
- Check for any error codes displayed on the device and consult the relevant section of the user manual or online resources.
- Ensure stable internet connection for online calculations or updates if required for the specific programming task.

7. SPECIFICATIONS

Brand	Xhorse
Model	Key Tool Max Pro
Item Weight	2.38 pounds
Package Dimensions	9.45 x 6.3 x 4.41 inches
Country of Origin	China
Batteries	1 Lithium Ion battery required (included)
UPC	850042869048
First Available Date	August 26, 2022

8. WARRANTY & SUPPORT

8.1 Warranty Information

A one-year warranty is offered from the date of product purchase. Please retain your proof of purchase for warranty claims. The warranty covers manufacturing defects and malfunctions under normal use conditions.

8.2 Technical Support

For any technical assistance, questions, or issues not covered in this manual, Xhorse provides online technical support. You can access live and free technical support from a professional and dedicated team through the 'Customer service' feature on the Xhorse APP.



Figure 11: Accessing 24/7 customer service and online support via the Xhorse APP.

For further assistance, you may also visit the official Xhorse website or contact their customer service directly through the contact information provided on their website or within the Xhorse APP.

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Documents - Xhorse – Key Tool Max Pro

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802.11a/b/g/n/ac 4.2 BLE 4. MAX PRO 1 OBDDb15 1 1 1 USB 1 ...

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MAX PRO is a professional smart device with multi-funciton, Bluetooth and WIFI
communication interface are interhrated inside, which is cobenient for connecting and
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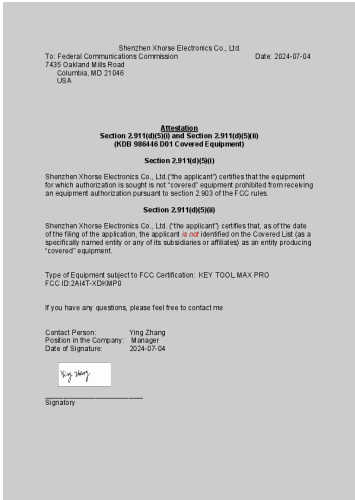
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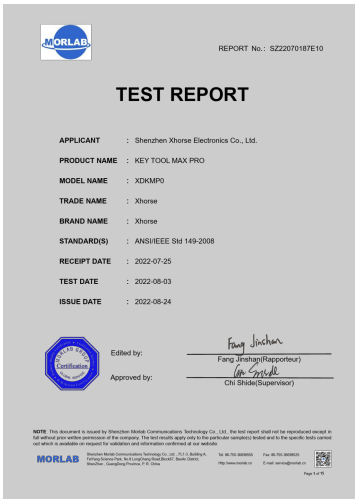
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X SZ22070187E10 Xhorse XDKMP0 Gain Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2AI4T 2AI4TXDKMP0 xdkmp0 REPORT No.SZ22070187E10 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 TRADE NAME : Xhorse BRAND NAME : Xhorse STANDARD S : ANSI/IEEE Std 149-2008 RECEIPT DATE : 2022-07-25 TEST DATE : 2022-08-03 ISSUE DATE : 2022-0... lang:en score:28 filesize: 1.25 M page_count: 15 document date: 2022-08-24



TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.

PRODUCT NAME : KEY TOOL MAX PRO

MODEL NAME : XDKMP0

BRAND NAME : Xhorse

FCC ID : 2A41T-XDKMP0

STANDARD(S) : 47 CFR Part 15 Subpart C

RECEIPT DATE : 2022-07-20

TEST DATE : 2022-07-26 to 2022-08-09

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Edited by: Peng Mi (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

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REPORT No.SZ22070187W04 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2A14T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-09 IS...

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BRAND NAME

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TEST REPORT

APPLICANT

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PRODUCT NAME

: KEY TOOL MAX PRO

MODEL NAME

: XDKMP0

BRAND NAME

: Xhorse

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TEST REPORT

APPLICANT

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PRODUCT NAME

: KEY TOOL MAX PRO

MODEL NAME

: XDKMP0

BRAND NAME

: Xhorse

FCC ID

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STANDARD(S)

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[pdf] Test Report

Microsoft Word SZ24030292W06 Xhorse XDKMP0 125kHz DXX docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2AI4T 2AI4TXDKMP0 xdkmp0

REPORT No.SZ24030292W06 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2AI4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...

lang:en score:26 filesize: 1.98 M page_count: 29 document date: 2024-07-03

 REPORT No.: SZ22070187W01

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2022-07-20
TEST DATE : 2022-07-26 to 2022-08-11
ISSUE DATE : 2022-08-26

 Edited by: Peng Mi
Peng Mi (Rapporteur)
Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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Shenzhen Morlab Communications Technology Co., Ltd.
FCC ID: 2A4T-XDKMP0
Model Name: XDKMP0
Brand Name: Xhorse
Address: Shenzhen, Guangdong, China
Tel: +86 755 88888888 Fax: +86 755 88888888
Email: support@morlab.com

[pdf] Test Report

Microsoft Word SZ22070187W01 Xhorse XDKMP0 BLE DTS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0

REPORT No.SZ22070187W01 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2A4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...

lang:en score:24 filesize: 2.52 M page_count: 41 document date: 2022-08-26

 REPORT No.: SZ22070187S02

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : FCC 47 CFR Part 212.1093 IEEE 1528-2013
RECEIPT DATE : 2022-07-25
TEST DATE : 2022-09-02
ISSUE DATE : 2022-09-26

 Edited by: Xie Yiyun
Xie Yiyun (Rapporteur)
Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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Shenzhen Morlab Communications Technology Co., Ltd.
FCC ID: 2A4T-XDKMP0
Model Name: XDKMP0
Brand Name: Xhorse
Address: Shenzhen, Guangdong, China
Tel: +86 755 88888888 Fax: +86 755 88888888
Email: support@morlab.com

[pdf] Test Report SAR Rating

Microsoft Word SZ22070187S02 Xhorse XDKMP0 FCC SAR docx Morlab Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0

REPORT No.SZ22070187S02 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID STANDARD S RECEIPT DATE : 2A4T-XDKMP0 : FCC 47 CFR Part 2 2.1093 IEEE 1528-2013 : 2022-07-25 TEST DATE : 2022-09-02 I...

lang:en score:24 filesize: 931.92 K page_count: 34 document date: 2022-09-26

 REPORT No.: SZ24030292W01

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2022-07-20
TEST DATE : 2022-07-26 to 2022-08-11
ISSUE DATE : 2024-07-01

 Edited by: Peng Mi
Peng Mi (Rapporteur)
Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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FCC ID: 2A4T-XDKMP0
Model Name: XDKMP0
Brand Name: Xhorse
Address: Shenzhen, Guangdong, China
Tel: +86 755 88888888 Fax: +86 755 88888888
Email: support@morlab.com

[pdf] Test Report

Microsoft Word SZ24030292W01 Xhorse XDKMP0 BLE DTS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0

REPORT No.SZ24030292W01 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2A4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...

lang:en score:24 filesize: 2.66 M page_count: 41 document date: 2024-07-03

 REPORT No.: SZ24030292S02

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : FCC 47 CFR Part 2 (2.1093)
RECEIPT DATE : 2022-07-25
TEST DATE : 2022-09-02
ISSUE DATE : 2024-07-10

 Edited by: Xie Yiyun
Xie Yiyun (Rapporteur)
Approved by: Gan Yanning
Gan Yanning (Supervisor)

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Shenzhen World Communications Technology Co., Ltd.
No. 12, Baimiao Building, Xixiang Road, Xixiang Town, Bao'an District, Shenzhen, Guangdong, P.R. China
Tel: 86-755-80880881 Fax: 86-755-80880882
Email: service@jwlab.com.cn

[pdf] Test Report SAR Rating

Microsoft Word SZ24030292S02 Xhorse XDKMP0 FCC SAR docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2AI4T 2AI4TXDKMP0 xdkmp0
REPORT No.SZ24030292S02 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID STANDARD S RECEIPT DATE : 2AI4T-XDKMP0 : FCC 47 CFR Part 2 2.1093 IEEE 1528-2013 : 2022-07-25 TEST DATE : 2022-09-02 I...
lang:en score:24 filesize: 1.02 M page_count: 35 document date: 2024-07-10



Xhorse Key Tool Max Pro User Manual

User manual for the Xhorse Key Tool Max Pro, a professional smart device for vehicle diagnosis, immo programming, and key cutting machine control.
lang:i-klnglon score:23 filesize: 544.27 K page_count: 3 document date: 2022-08-26

 REPORT No.: SZ22070187W03

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2022-07-20
TEST DATE : 2022-07-26 to 2022-08-11
ISSUE DATE : 2022-08-26

 Edited by: Peng Mi
Peng Mi (Rapporteur)
Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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Tel: 86-755-80880881 Fax: 86-755-80880882
Email: service@jwlab.com.cn

[pdf] Test Report

Microsoft Word SZ22070187W03 Xhorse XDKMP0 WiFi2 4G DTS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2AI4T 2AI4TXDKMP0 xdkmp0
REPORT No.SZ22070187W03 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2AI4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...
lang:en score:23 filesize: 5.84 M page_count: 68 document date: 2022-08-26

 REPORT No.: SZ24030292W03

TEST REPORT

APPLICANT : Shenzhen Xhorse Electronics Co., Ltd.
PRODUCT NAME : KEY TOOL MAX PRO
MODEL NAME : XDKMP0
BRAND NAME : Xhorse
FCC ID : 2A4T-XDKMP0
STANDARD(S) : 47 CFR Part 15 Subpart C
RECEIPT DATE : 2022-07-20
TEST DATE : 2022-07-26 to 2024-05-30
ISSUE DATE : 2024-07-10

 Edited by: Peng Mi
Peng Mi (Rapporteur)
Approved by: Shen Junsheng
Shen Junsheng (Supervisor)

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Tel: 86-755-80880881 Fax: 86-755-80880882
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[pdf] Test Report

Microsoft Word SZ24030292W03 Xhorse XDKMP0 WiFi2 4G DTS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2AI4T 2AI4TXDKMP0 xdkmp0
REPORT No.SZ24030292W03 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2AI4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2024-05-30 IS...
lang:en score:23 filesize: 2.71 M page_count: 70 document date: 2024-07-10



REPORT No.: SZ22070187W02

TEST REPORT

APPLICANT

: Shenzhen Xhorse Electronics Co., Ltd.

PRODUCT NAME

: KEY TOOL MAX PRO

MODEL NAME

: XDKMP0

BRAND NAME

: Xhorse

FCC ID

: 2A4T-XDKMP0

STANDARD(S)

: 47 CFR Part 15 Subpart C

RECEIPT DATE

: 2022-07-20

TEST DATE

: 2022-07-26 to 2022-08-11

ISSUE DATE

: 2022-08-26



Edited by: 
Peng Mi (Rapporteur)

Approved by: 
Shen Junsheng (Supervisor)

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Shenzhen Xhorse Communications Technology Co., Ltd.
Room 1001, Xixiang Avenue, Shenzhen, Guangdong, P.R. China

TEL: 86-755-88888888 FAX: 86-755-88888888
WWW.XHORSE.COM E-MAIL: XHORSE@XHORSE.COM

Page 1 of 47

[pdf] Test Report

Microsoft Word SZ22070187W02 Xhorse XDKMP0 BTclassic DSS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0
REPORT No.SZ22070187W02 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2A4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...
lang:en score:22 filesize: 3.27 M page_count: 81 document date: 2022-08-26



REPORT No.: SZ24030292W02

TEST REPORT

APPLICANT

: Shenzhen Xhorse Electronics Co., Ltd.

PRODUCT NAME

: KEY TOOL MAX PRO

MODEL NAME

: XDKMP0

BRAND NAME

: Xhorse

FCC ID

: 2A4T-XDKMP0

STANDARD(S)

: 47 CFR Part 15 Subpart C

RECEIPT DATE

: 2022-07-20

TEST DATE

: 2022-07-26 to 2022-08-11

ISSUE DATE

: 2024-07-10



Edited by: 
Peng Mi (Rapporteur)

Approved by: 
Shen Junsheng (Supervisor)

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Page 1 of 47

[pdf] Test Report

Microsoft Word SZ24030292W02 Xhorse XDKMP0 BTclassic DSS docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0
REPORT No.SZ24030292W02 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID : 2A4T-XDKMP0 STANDARD S : 47 CFR Part 15 Subpart C RECEIPT DATE : 2022-07-20 TEST DATE : 2022-07-26 to 2022-08-11 IS...
lang:en score:22 filesize: 3.44 M page_count: 82 document date: 2024-07-10



REPORT No.: SZ24030292S01

TEST REPORT

APPLICANT

: Shenzhen Xhorse Electronics Co., Ltd.

PRODUCT NAME

: KEY TOOL MAX PRO

MODEL NAME

: XDKMP0

BRAND NAME

: Xhorse

FCC ID

: 2A4T-XDKMP0

STANDARD(S)

: FCC 47 CFR Part 2 (2.1093) IEEE 1528-2013

RECEIPT DATE

: 2024-04-07

TEST DATE

: 2024-05-24 to 2024-05-27

ISSUE DATE

: 2024-07-01



Edited by: 
Xie Yiyun (Rapporteur)

Approved by: 
Gan Yuesheng (Supervisor)

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Page 1 of 47

[pdf] Test Report SAR Rating

Microsoft Word SZ24030292S01 Xhorse XDKMP0 FCC SAR docx Administrator Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A4T 2A4TXDKMP0 xdkmp0
REPORT No.SZ24030292S01 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID STANDARD S RECEIPT DATE : 2A4T-XDKMP0 : FCC 47 CFR Part 2 2.1093 IEEE 1528-2013 : 2024-04-07 TEST DATE : 2024-05-24 to 20...
lang:en score:22 filesize: 1.55 M page_count: 47 document date: 2024-07-03



[pdf] Test Report SAR Rating

Microsoft Word SZ22070187S01 Xhorse XDKMP0 FCC SAR 3 0 docx Morlab Shenzhen Electronics Co Ltd KEY TOOL MAX PRO 2A14T 2A14TXDKMP0 xdkmp0

REPORT No.SZ22070187S01 TEST REPORT APPLICANT : Shenzhen Xhorse Electronics Co., Ltd. PRODUCT NAME : **KEY TOOL MAX PRO** MODEL NAME : XDKMP0 BRAND NAME : Xhorse FCC ID STANDARD S RECEIPT DATE : 2A14T-XDKMP0 : FCC 47 CFR Part 2 2.1093 IEEE 1528-2013 : 2022-07-25 TEST DATE : 2022-08-08 to 20...

lang:en score:22 filesize: 1.39 M page_count: 47 document date: 2022-09-26

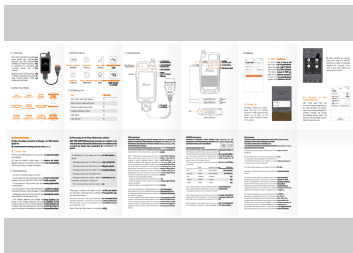


[pdf] Specifications Catalog

TO SEE EOFY DEALS Cloudfront net The Key Tool Max Pro is a very Powerful Completely Stand Alone Remote Transponder Machine This new variation includes an OBDII cable eliminating the need Catalogue 2025 NP v 93f725fb25644ff1d4022047e8318b4f556ad9b6 d347awuzx0kdse cloudfront sglocks content file |||

SEARCH EOFY ON sglocks.com.au TO SEE EOFY DEALS 1. KEY MACHINES Pages 2-5 2. ENGRAVING MACHINES ... FY 8 KEY PROGRAMMING KEY PROGRAMMING - ESSENTIALS KEY TOOL MAX - PRO PRODUCT DESCRIPTION The **Key Tool Max Pro** is a very Powerful Completely Stand-Alone Remote/Transponder Machine. This new ...

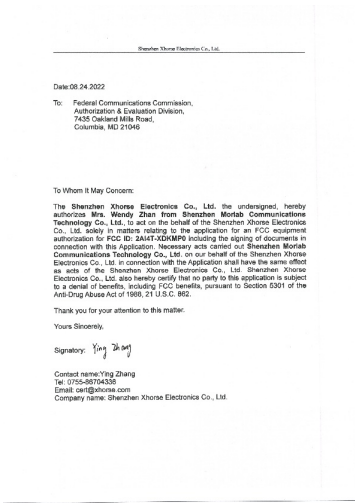
lang:en score:18 filesize: 8.09 M page_count: 24 document date: 2025-05-27



[pdf] User Manual

20240611 KEY TOOL MAX PRO 84x125mm h User manual Shenzhen Xhorse Electronics Co Ltd XDKMP0 PRO 2A14T 2A14TXDKMP0 xdkmp0

... lang:en score:18 filesize: 2.48 M page_count: 1 document date: 2024-07-04

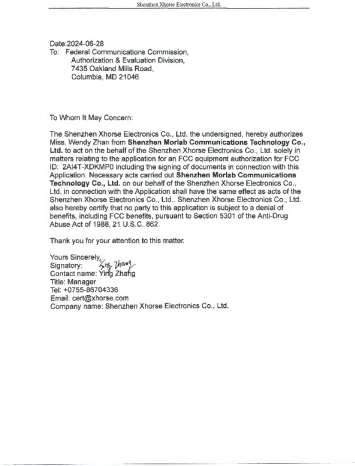


[pdf]

POA Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A14T 2A14TXDKMP0 xdkmp0

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lang:en score:14 filesize: 952.3 K page_count: 1 document date: 2022-08-23



[pdf]

POA Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A14T 2A14TXDKMP0 xdkmp0

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lang:en score:14 filesize: 939.71 K page_count: 1 document date: 2024-06-27



[pdf]

SAR AnnexF2 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A14T 2A14TXDKMP0 xdkmp0

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lang:en score:14 filesize: 3.1 M page_count: 11 document date: 2022-09-08

Shenzhen Xhorse Electronics Co., Ltd.

Supplier's Declaration Of Conformity

for the FCC SDoC Procedure

The following Equipment adheres FCC SDoC Procedure according to FCC part 2.106 :

Product Name: KEY TOOL MAX PRO

Brand Name:Xhorse

Model Number:XDKMP0

Report Number:202207081103

FCC ID:2A41T-XDKMP0

It's herewith confirmed to comply with the requirements of FCC Part 15 Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

It is understood that each unit marketed is identical to the device as tested, and any changes to the device that could adversely affect the emission characteristics will require retest.

The following importer / responsible party is United States:

Not Available at Certification Stage

Company Name: NA

Company Address: NA

Telephone NA

Fax: NA

Person is responsible for marking this declaration:

Ying Zhang Certification Manager

Name (Full name) Position / Title

2022.08.24 Date

Legal Signature

[pdf]

SDoC letter Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A41T 2A41TXDKMP0 xdkmp0

...

lang:en score:14 filesize: 837.91 K page_count: 1 document date: 2022-08-23

Shenzhen Xhorse Electronics Co., Ltd.

Date 08.24.2022

To: Federal Communications Commission,
Authorization & Evaluation Division,
7430 Oakland Mills Road,
Columbia, MD 21046

Re: Request of Confidentiality for FCC ID: 2A41T-XDKMP0

To Whom it may concern:

Pursuant to sections 0.457 and 0.459 of Commission's Rules(CFR 47), and Section 552(b)(3) of the Freedom of Information Act, Shenzhen Xhorse Electronics Co., Ltd. hereby requests confidentiality and treatment of certain information accompanying this application. The materials contain trade secrets and proprietary information not customarily released to the public. The public disclosure of these matters might be harmful to the Applicant and provide unjustified benefits to its competitors.

We are also hereby request Short-Term Confidentiality for 180 days after the grant are outlined in Public Notice 2A41T-1759. This provision will give Shenzhen Xhorse Electronics Co., Ltd. temporary confidentiality of commercially sensitive information prior to product release.

The requested Permanent and Short-Term Confidential exhibits are listed as follows:

PERMANENT AND SHORT-TERM CONFIDENTIAL LIST	
Exhibit	Description
1	Block Diagram
2	Operational Description
3	Schematics
4	BOM
5	Type of Procedure
6	External Photos
7	Internal Photos
8	Test-Setup Photos
9	Test Result

The Applicant understands that pursuant to Rule 0.457, disclosure of this application and all accompanying documents, where applicable, will not be made public before the date of the Grant for this application.

Signatory: Ying Zhang

Contact name:Ying Zhang
Tel:0755-86704336
Email:cert@xhorse.com
Company name :Shenzhen Xhorse Electronics Co., Ltd.

[pdf] Confidentiality Request Letter

Request for Confidentiality Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A41T 2A41TXDKMP0 xdkmp0

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lang:en score:14 filesize: 1.13 M page_count: 1 document date: 2022-08-23

TTL Calibration Laboratory

CNAS 中国合格评定国家认可委员会

Client: Mofabs Certificate No: Z21-60477

CALIBRATION CERTIFICATE

Object: L6620V2 - 800 800

Calibration Procedure(s): PP-211-009-01
Calibrated Procedures for double calibration kits

Calibration date: December 17, 2021

This calibration Certificate documents the traceability to national standards, which realizes the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature (23±0.1°C and humidity 55%).

Calibration Equipment used (MATE initial for calibration)

Primary Standards	ID #	Cal Date (Calibrated by Certificate No.)	Scheduled Calibration
Power Meter N9902	150077	24-Nov-21 (TTL No. Z21030306)	Nov-22
Power sensor N9900	150077	24-Nov-21 (TTL No. Z21030306)	Nov-22
Reference trace L6620V2	DN 1737	24-Nov-21 (SFSA No. DN 1737_Any21)	May-22
DA44	DN 1599	19-Jun-21 (SFSA No. DA44-1599_Any21)	Jan-22

Secondary Standards	ID #	Cal Date (Calibrated by Certificate No.)	Scheduled Calibration
Signal Generator E4330C	0746071430	25-Feb-21 (TTL No. Z21030308)	Jan-22
Network analyzer E5071C	08491002	14-Jun-21 (TTL No. Z21030302)	Jan-22

Calibrated by: Zhao Jing SAR Test Engineer Signature

Reviewed by: Lin Hao SAR Test Engineer

Approved by: Qi Dianqun SAR Project Leader

Issued: December 17, 2021

This calibration certificate shall not be reproduced except in full without written approval of the laboratory

Certificate No: Z21-60477 Page 1 of 1

[pdf]

SAR AnnexF3 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A41T 2A41TXDKMP0 xdkmp0

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lang:en score:14 filesize: 3.7 M page_count: 6 document date: 2022-08-23


CALIBRATION CERTIFICATE
 Certificate No: Z21-66536
 Client: Shenzhen Xhorse Electronics Co., Ltd.
 Object: SAR-214 (SAR-214)
 Calibration Procedure: FF-214-002-01
 Calibration Procedure for the Data Acquisition Electronics (SAR-214)
 Calibration date: December 30, 2021
 The calibration Certificate documents the traceability to national standards, which realize the original units of measurement (SI). The measurement and the uncertainty are given in the following table and are part of the certificate.
 All calibrations have been conducted in the stated laboratory facility, environment (temperature: 22±2°C, and humidity: 55%).
 Calibration Equipment used (NIST-traceable for calibration):

Primary Standards	ID #	Cal Date/Calibrated by: Certificate No.	Scheduled Calibration
Process Calibrator (T5)	1571010	15-Jun-21 (TTL, No. 21004455)	Jan-22

Calibrated by:	Name	Function	Signature
Reviewed by:	Yu Zhenqiang	SAR Test Engineer	
Approved by:	Lin Hui	SAR Test Engineer	
	Q. Chenyan	SAR Project Leader	

 This calibration certificate shall not be reproduced, except in full, without written approval of the laboratory.
 Certificate No: Z21-66536 Page 1 of 1

[pdf]

SAR AnnexF2 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

...

lang:en score:14 filesize: 766.16 K page_count: 3 document date: 2022-08-23

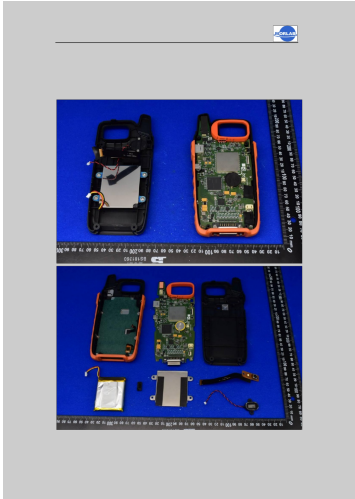
Declaration Letter
 Herewith, we, Shenzhen Xhorse Electronics Co., Ltd. declare that for Model: XDKMP0, Now has the differences with before as below:
 1. Some oscilloscope devices are reduced. Their position is U803, U806, U810, U804, U806, U809. And added 0 ohm resistance. Their modifications are only related to CAN-related functionality. It has nothing to do with wireless functions.
 2. Modified the logic device U704 is added in the I2S KHz acquisition and recording part, and some devices are not needed (U701, U704, U726), and the corresponding principle is modified.
 3. Update the software version to: V3.0.1.
 Update the hardware version to: V3.0.
 There is no other change.
 The appearance, all RF parameters and circuits remain the same as before.
 Please be noticed.
 Date: 2024-07-02
 Signatory: *Ying Zhang*
 Contact name: Ying Zhang
 Tel: 0755-86704300
 Email: sales@xhorse.com
 Company name: Shenzhen Xhorse Electronics Co., Ltd.

[pdf] Decleration of Conformity

Declaration Letter Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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lang:en score:14 filesize: 847.53 K page_count: 1 document date: 2024-07-01



[pdf] Product Photos Teardown

internal photo Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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lang:en score:14 filesize: 2.32 M page_count: 14 document date: 2024-07-03

Dear Examiner,

This is to request a Class II Permissive change for PCID: 22AAT-KXJMP0 originally granted on 03/26/2022.

In compliance with the original project, there are the following changes:

1. Some computer devices are discontinued. Their position is U803, U805, U810, U804, U805, U809, and add 0 ohm resistance. Their modifications are only related to QSG-related functions, it has nothing to do with wireless functions.

2. The logic device U704 is added in the 129th equation and receiving part, and some devices are not needed (U721, C724, C725), and the corresponding principle is modified.

3. Update the software version to: V1.5.1, and update the hardware version to: 1.00, and the software version is not the same as before.

I attest that the certified device will not be capable of ad-hoc mode operation outside of the logic device U704.

Dated: 2024/06/28

Sincerely,
Name: Yiyi Zhang
Title: Manager
Signature of applicant _____

ECC Class II PC Request Letter

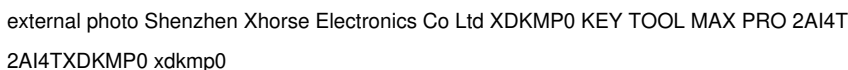
C2PC letter Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2A14T 2A14TXDKMP0
xdkmp0

lang:en score:14 filesize: 935.39 K page count: 1 document date: 2024-06-27

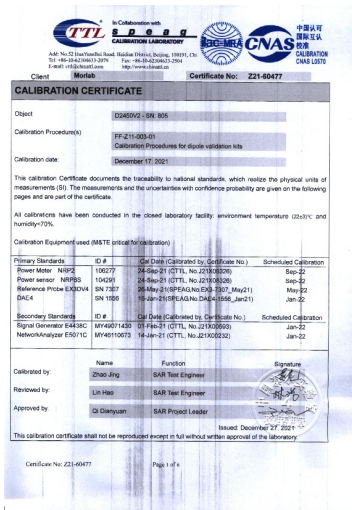
Calibration Laboratory of Strydom & Pillar Engineering AG Zähringerstrasse 40, 9104 Kriens, Switzerland		 S Schweizerische Eidgenossenschaft Confédération suisse Confederaziun Svizra Confederaziun Svizra
Accredited by the Swiss Confederation since 2012 Swiss Accreditation Service to meet the requirements for the Co-ordination of the Metrological Infrastructure of Calibration authorities		
Client: Möbiel Winterthurgasse 10 Winterthur		Accreditation No.: ISO 9108
CALIBRATION CERTIFICATE		Certificate No.: DAE6-1643_Möbiel
Object: DAEA – SD 004 D04 001 – SN 1543		
Calibrated product(s): QAL CAL-05-100	Calibration procedure ISO – SN 1543	
Calibration date: March 27, 2024		
This certificate is issued in accordance with the requirements of the metrological infrastructure, while making the physical and/or mathematical statements (B1, B2, B3, B4, B5, B6, B7, B8, B9, B10, B11, B12, B13, B14, B15, B16, B17, B18, B19, B20, B21, B22, B23, B24, B25, B26, B27, B28, B29, B30, B31, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B42, B43, B44, B45, B46, B47, B48, B49, B50, B51, B52, B53, B54, B55, B56, B57, B58, B59, B60, B61, B62, B63, B64, B65, B66, B67, B68, B69, B70, B71, B72, B73, B74, B75, B76, B77, B78, B79, B80, B81, B82, B83, B84, B85, B86, B87, B88, B89, B90, B91, B92, B93, B94, B95, B96, B97, B98, B99, B100, B101, B102, B103, B104, B105, B106, B107, B108, B109, B110, B111, B112, B113, B114, B115, B116, B117, B118, B119, B120, B121, B122, B123, B124, B125, B126, B127, B128, B129, B130, B131, B132, B133, B134, B135, B136, B137, B138, B139, B140, B141, B142, B143, B144, B145, B146, B147, B148, B149, B150, B151, B152, B153, B154, B155, B156, B157, B158, B159, B160, B161, B162, B163, B164, B165, B166, B167, B168, B169, B170, B171, B172, B173, B174, B175, B176, B177, B178, B179, B180, B181, B182, B183, B184, B185, B186, B187, B188, B189, B190, B191, B192, B193, B194, B195, B196, B197, B198, B199, B200, B201, B202, B203, B204, B205, B206, B207, B208, B209, B210, B211, B212, B213, B214, B215, B216, B217, B218, B219, B220, B221, B222, B223, B224, B225, B226, B227, B228, B229, B230, B231, B232, B233, B234, B235, B236, B237, B238, B239, B240, B241, B242, B243, B244, B245, B246, B247, B248, B249, B250, B251, B252, B253, B254, B255, B256, B257, B258, B259, B260, B261, B262, B263, B264, B265, B266, B267, B268, B269, B270, B271, B272, B273, B274, B275, B276, B277, B278, B279, B280, B281, B282, B283, B284, B285, B286, B287, B288, B289, B290, B291, B292, B293, B294, B295, B296, B297, B298, B299, B300, B301, B302, B303, B304, B305, B306, B307, B308, B309, B310, B311, B312, B313, B314, B315, B316, B317, B318, B319, B320, B321, B322, B323, B324, B325, B326, B327, B328, B329, B330, B331, B332, B333, B334, B335, B336, B337, B338, B339, B340, B341, B342, B343, B344, B345, B346, B347, B348, B349, B350, B351, B352, B353, B354, B355, B356, B357, B358, B359, B360, B361, B362, B363, B364, B365, B366, B367, B368, B369, B370, B371, B372, B373, B374, B375, B376, B377, B378, B379, B380, B381, B382, B383, B384, B385, B386, B387, B388, B389, B390, B391, B392, B393, B394, B395, B396, B397, B398, B399, B400, B401, B402, B403, B404, B405, B406, B407, B408, B409, B410, B411, B412, B413, B414, B415, B416, B417, B418, B419, B420, B421, B422, B423, B424, B425, B426, B427, B428, B429, B430, B431, B432, B433, B434, B435, B436, B437, B438, B439, B440, B441, B442, B443, B444, B445, B446, B447, B448, B449, B450, B451, B452, B453, B454, B455, B456, B457, B458, B459, B460, B461, B462, B463, B464, B465, B466, B467, B468, B469, B470, B471, B472, B473, B474, B475, B476, B477, B478, B479, B480, B481, B482, B483, B484, B485, B486, B487, B488, B489, B490, B491, B492, B493, B494, B495, B496, B497, B498, B499, B500, B501, B502, B503, B504, B505, B506, B507, B508, B509, B510, B511, B512, B513, B514, B515, B516, B517, B518, B519, B520, B521, B522, B523, B524, B525, B526, B527, B528, B529, B530, B531, B532, B533, B534, B535, B536, B537, B538, B539, B540, B541, B542, B543, B544, B545, B546, B547, B548, B549, B550, B551, B552, B553, B554, B555, B556, B557, B558, B559, B560, B561, B562, B563, B564, B565, B566, B567, B568, B569, B570, B571, B572, B573, B574, B575, B576, B577, B578, B579, B580, B581, B582, B583, B584, B585, B586, B587, B588, B589, B590, B591, B592, B593, B594, B595, B596, B597, B598, B599, B600, B601, B602, B603, B604, B605, B606, B607, B608, B609, B610, B611, B612, B613, B614, B615, B616, B617, B618, B619, B620, B621, B622, B623, B624, B625, B626, B627, B628, B629, B630, B631, B632, B633, B634, B635, B636, B637, B638, B639, B640, B641, B642, B643, B644, B645, B646, B647, B648, B649, B650, B651, B652, B653, B654, B655, B656, B657, B658, B659, B660, B661, B662, B663, B664, B665, B666, B667, B668, B669, B670, B671, B672, B673, B674, B675, B676, B677, B678, B679, B680, B681, B682, B683, B684, B685, B686, B687, B688, B689, B690, B691, B692, B693, B694, B695, B696, B697, B698, B699, B700, B		

SAR AnnexF6 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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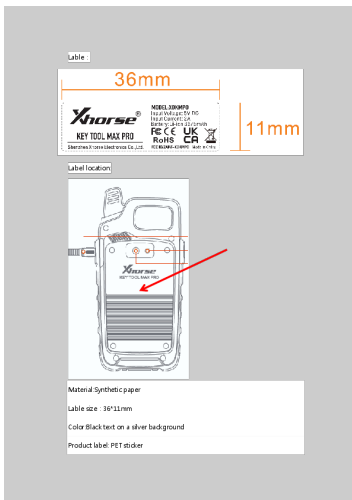


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SAR AnnexF7 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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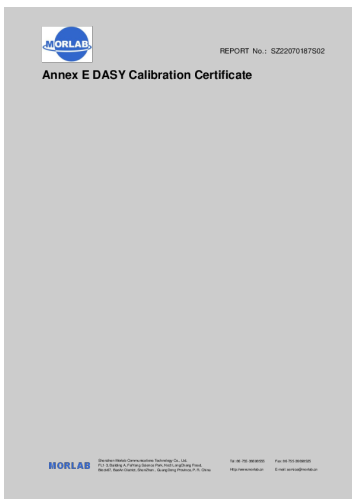


[pdf] Label

USER Label and Location Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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lang:en score:13 filesize: 82.37 K page_count: 1 document date: 2022-08-25



[pdf] SAR Rating

SATIMO SAR AnnexF1 Shenzhen Xhorse Electronics Co Ltd XDKMP0 KEY TOOL MAX PRO 2AI4T
2AI4TXDKMP0 xdkmp0

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