***Vehicle Computer Series***

**AFOKAR-08A-RK39**

# *Features*

Android

Touchscreen

NFC

OBD-II

GPS

* 8” sunlight readable TFT LCD with projected

capacitive touchscreen

* Optional LTE module
* Built-in GPS receiver
* Built-in OBD-II/J1939
* OS: Android 7.1

Fanless

Bluetooth

Wi-Fi

High Brightness

Camera

# *Specifications*

|  |  |
| --- | --- |
| **Model Name** | **AFOKAR-08A-RK39** |
| **Chassis** | **Color** | Black C + Silver |
| **Dimensions (WxHxD) (mm)** | 210 x 154 x 33.9 |
| **System Fan** | Fanless |
| **Chassis Construction** | PC + ABS plastic front, Metal rear |
| **Display** | **Size** | 8" |
| **Resolution** | 800(RGB) × 1280 |
| **Brightness (cd/m2)** | 500 cd/m² (typ.) |
| **Contrast Ratio** | 800 : 1 (typ.) |
| **Pixel Pitch (mm)** | 0.13455(H) × 0.13455(V) |
| **Viewing Angle (H/V)** | 85/85/85/85 Deg. |
| **Touchscreen** | Projected capacitive with AG coating |
| **Motherboard** | **CPU** | Rockchip RK3399 (Dual-core Cortex-A72 up to 1.8GHz + Quad-core Cortex-A53 up to 1.5GHz) |
| **System Memory** | 2GB LPDDR3-1866 |
| **Storage** | **SD Card** | 1 x Micro SD slot |
| **Flash** | 16GB eMMC NAND FLASH |
| **Communication** | **WLAN** | 802.11 a/b/g/n/ac |
| **Bluetooth** | Bluetooth V4.1 |
| **WWAN** | PCIe Mini LTE (optional) |
| **RFID** | 13.56 MHz ISO4443 A/B, read-write capable,ISO 14443A (MIFARE), ISO 14443B (FeliCa) |
| **GPS** | On board GPS |
| **I/O Interfaces** | **20-pin Connector** | \*\* 1 x OBD-II/J1939\*\* 1 x USB 2.0 |
| **24-pin Connector** | \*\* 1 x Audio out\*\* 1 x RS-232\*\* 1 x RS-485\*\* 4-bit digital I/O with isolation (2-bit input, 2-bit output) |
| **USB 3.1 Gen 1** | 1 x USB 3.1 Gen 1 Type A |
| **Display** | 1 x HDMI output |
| **SIM** | 1 x on board SIM card slot |
| **Antenna** | 1 x GPS, 1 x WWAN |
| **Expansions** | **PCIe Mini** | 1 x Full-size PCIe Mini (reserved for WWAN) |
| **Multimedia** | **Speaker** | 1 x Speaker (2 W) |
| **Camera** | 5-megapixel CMOS |
| **LED Indicator & Button** | **Indicator** | Power/BT/Wi-Fi/WWAN |
| **Button** | 1 x Power button |
| **Power** | **Power Input** | DC 9 V~30 V, 4 pin connector (with ACC Ignition) |
| **Power Consumption** | 12V @ 1.2A |
| **Reliability** | **Mounting** | VESA Mount 75mm x 75mm |
| **Operating Temperature** | -10°C ~ 50°C with air flow |
| **Storage Temperature** | -20°C ~ 60°C |
| **Humidity** | 10% ~ 90%, non-condensing |
| **Operating Shock** | Half-sine wave shock 5G, 11ms, 3 shocks per axis |
| **Operating Vibration** | MIL-STD-810F 514.5C-2 |
| **Weight (Net)** | 0.77 kg |
| **Safety/EMC** | CE/FCC (Class A)/E-mak/IP54 front panel compliant |
| **OS** | **Supported OS** | Android 7.1 |
| **Watch dog timer** | Yes |

14.12

Power Switch

Micro SD Card Slot Access Panel

SIM Card Slot Access Panel

USB 3.1 Gen 1

WWAN Antenna

(Optional)

GPS Antenna

HDMI Output

Power Input

***Dimensions (Unit: mm)***

I/O Connector 2 (24-pin) I/O Connector 1 (20-pin)

28.5

210

8.9

86.31

105

86.31

4XM4-5L

75

33.9

***AFOKAR-08A-RK39***

23.9

28

# *Ordering Information*

154

108.04

54.02 23.18

75

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| --- | --- |
| Part No. | Description |
| AFOKAR-08A-RK39-R10- TW | 8” 500 cd/m², Android 7.1 In Vehicle Panel PC with Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, GPS, WIFI/BT, OBD II, 5M Camera, RFID Reader, TW reg, ROHS |
| AFOKAR-08A-RK39-R10-CN | 8” 500 cd/m², Android 7.1 In Vehicle Panel PC with Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, GPS, WIFI/BT, OBD II, 5M Camera, RFID Reader, CN reg, ROHS |
| AFOKAR-08A-RK39-R10-US | 8” 500 cd/m², Android 7.1 In Vehicle Panel PC with Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, GPS, WIFI/BT, OBD II, 5M Camera, RFID Reader, US reg, ROHS |
| AFOKAR-08A-RK39-R10-EU | 8” 500 cd/m², Android 7.1 In Vehicle Panel PC with Rockchip 3399 Processor, 2GB LPDDR3 , 16GB eMMC Flash, GPS, WIFI/BT, OBD II, 5M Camera, RFID Reader, EU reg, ROHS |

***Options***

|  |  |  |
| --- | --- | --- |
| Item | Part No. | Description |
| Power Adapter | IVIPOWER-4PIN-R10 | Adapter PowerWith 4 pins transfer cable, RoHS |
| Cigarette Lighter Power Cable | 32002-004000-100-RS | CAR CIGARETTE LIGHTER CABLE |
| VESA Mount Stand | IVI-MK03-R10 | 138mm 75x75 VESA mount stand |
| VESA Mount Stand | IVI-MK04-R10 | 286mm 75x75 VESA mount stand |
| OBDII Cable | 32025-003400-100-RS | OBDII CABEL;2;2000MM;24AWG;(A)OBD2-16P MALE;(B)D-SUB 9PIN FEMALE |
| ACC Power Cable | 32002-001900-100-RS | Vehicle battery to device power cable;3000MM;16AWG |
| GPS/LTE Antenna | 32506-000500-100-RS | Magnetic Antenna Base\_GPS+GLOANSS & 3G/LTE 2 In 1 Antenna;RG 174;5000MM |
| I/O Connector (20 pin) | 32024-003800-100-RS | 1 x DB-9 for OBD-II/J1939, 1 x USB 2.0 TYPE A |
| I/O Connector (24 pin) | 32124-004400-100-RS | 1 x Audio line-out (R+L), 1 x RS-232, 1 x RS-485,1 x terminal block 4 bit digital I/O |
| LTE module | 27552-000004-RS | WCDMA/HSPA+/LTE;SIM7500SA |
| 27552-000005-RS | GSM/LTE/WCDMA;SIM7500E |
| 27552-000006-RS | LTE/WCDMA;SIM7500A |

***Packing List***

1 x AFOKAR Device