



V12R

Enterprise-Grade Rugged Vehicle PC

- Equipped with Rockchip RK3568 Processor, low-power consumption
- Standard WIFI 5, BT5.0, optional 4G and data radio communication modules
- Multiple interface options, covering AHD/TNC/SMA/Deutsch interfaces
- Android 12+ Linux dual systems, compatible with a variety of applications
- GPS/GLONASS/Beidou and optional RTK high-precision positioning
- Supports 6V to 36V wide-voltage input, catering to diverse vehicle charging needs



Durability	- MIL-STD-810H certified - IP65 certified ±6kV contact discharge, ±10kV air discharge
Operating System	- Android 12 - Optional Linux
Processor	- RK3568 - Quad-Core 64-bit Cortex-A55 Processor
Graphics	Mali-G5 2-2EE
Memory	4GB LPDDR4x
Storage	64GB eMMC
Display	10" LCD(800*1280), 700nits sunlight readable display 5-point capacitive touchscreen - Option LVDS (1024*600),750cd/m2 ; - Option FHD(1200*1920),700cd/m2;
Audio	- Integrated handheld microphone - Integrated 3W speaker - Audio amplifier
Camera	- AHD(720P*4,option1080P*2)On the board - Option AHD(720P*4,option1080P*2)
Keyboard & Input	3 buttons(2 user-definable key)
Network & Connectivity	- WIFI 802.11 a/b/g/n/ac Dual frequency 2.4G+5G WIFI - Bluetooth® V5.0 - Option 4G - LTE Cat 4 - WCDMA : B1+5+8 - TDD : B38+40+41 - FDD : B1+3+5+7+8+20+28 - Integrated GNSS module (GPS/BD/Glonass) - Optional only BD module - Option RTK module - Option Digital radio module
Battery & Charging	- Power input 6-36V&ACC - RTC Battery

I/O Interface	- Micro SD x1, Nano-SIM x1 - USB2.0 (USB_A) x1 - AHD(720P x4,option1080P x2)On the board; Option AHD(720P x4,option1080P x2) On the EX_CAB_FULL_RS232_AHD - Option TNC (RTK) x2 SMA (4G,Digital radio station) x2 - EX_CAB_FULL Option EX_CAB_FULL_RS232_AHD Option EX_CAB_FULL_RJ45_CAN
Expansion bus	- CAN (MCU can) x2 Option CAN x4(socket can x2+MCU can x2) support J1939 ; - Serial port RS232 x1(option RS232 x2) RS485 x1 10/100Mbps Ethernet RJ45 x1 Option 10/100/1000Mbps Ethernet RJ45 x1 - GX12 x1 (3pin , power input 6-36V&ACC) - GX12 x1(12V output) - GX12 x1(GPIO x2 input) - USB2.0 (USB_A) x1 - GX12 x4 AHD input (720P x4,option1080P x2) 3.5mm Audio Jack x1 - Handheld microphone GX12 x12.0 (USB_A) x1
Environment	- Operating temperature: 20°C to 60°C(MIPI LCD) - Storage tmperature: -30°C to 70°C(MIPI LCD) - Humidity: 95% (Non-Condensing)
Dimension	282 mm(L) × 181 mm(W) × 31 mm(H)
Weight	1150g
Accessories	Optional: ADP12V4ADC(CN), GX12 to DC cable EX_CAB_FULL, EX_CAB_FULL_RS232_AHD EX_CAB_FULL_RJ45_CAN, GX12 to power input&ACC Cable, GNSS Ext ant(3M), Digital radio ext ant(4M) , mount parts
Warranty	One-year limited warranty standard

1. Please contact your sales representative for feature availability.
2. Battery life data is provided by Emdoor's laboratory. Default test conditions: 300 nits display brightness, 30 cm/70 dB sound level. Actual results may vary depending on test environments and methods.
3. Certified to MIL-STD-810H and IP standards. For specific test items and methods, please refer to the latest official test report.
4. Body dimensions and weight are measured by Emdoor's laboratory. Variations may occur due to measurement methods and manufacturing processes.
5. All product images, specifications, user interface, and features are for reference only and may vary by production batch or other factors. All information is subject to change without prior notice.

ACCESSORIES

Optional



CN DC
Wall Adapter



Power adapter
cable



Expansion
Slot



Data Radio External
Suction Cup Antenna



Base with
ball



4G External
Suction Cup Antenna



Vehicle
mushroom antenna

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