

# Netbox Duo Datasheet

V1.2

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# 1. Features

Netbox Duo is a rugged router, which provides reliable high-speed network connection designed for use on-board vehicles. It features a flexible communications design with 3G/4G multi-carrier cellular module, integrated on-board power supply, Wi-Fi ac/b/g/n, GPS and 4-port Ethernet switch.

- On-board power supply designed for VCC monitoring. Device will power on after vehicle launching.
- 880MHz MIPS processor supports WiFi connectivity for over 60 user terminal devices.
- 1 gigabit WAN port and 4 gigabit LAN port support auto-MDI/MDIX.
- 802.11b/g/n/ac with WPA、WPA2、WPA-PSK、WPA2-PSK.
- A USB 3.0 interface.
- An expand Mirco SD card.
- WiFi capture portal for business application, such as user info collecting.
- QOS for all kinds of customers.
- Carrier redundancy and load balance.
- GPS for accurate positioning and real-time route tracking.

# 2. Parameters

Physical	
Dimension (L * W * H)	295 * 180 * 60 mm
Weight	2 kg
Status LEDs	PWR, SYS, 3G/4G, 2G, 5G
	WAN, LAN1, LAN2, LAN3, LAN4
External memory	Mirco SD card * 1
USB	USB 3.0 type A * 1
Button	Reset
Power	
Power input	9~36 V
Power connector	GX12-3 (center pin: male)
Power on time delay	30 s
Ethernet	
WAN	10/100/1000 Mbps (Auto-sensing, Auto MDI/MDIX) * 1
LAN	10/100/1000 Mbps(Auto-sensing, Auto MDI/MDIX) * 4
GNSS	
Channels	72
Horizontal position accuracy	2.5 m

Max navigation update rate	5 Hz
Time-To-First-Fix	Cold start 26 s
	Hot start 1 s
	Aided starts 2 s
Sensitivity	Tracking & Navigation -167 dBm
	Reacquisition -160 dBm
	Cold start -148 dBm
	Hot start -157 dBm
Antenna	50 Ω SMA (center pin: female)
WiFi	
Standard	2.4 GHz: 802.11 b/g/n
	5 GHz: 802.11 a/ac
Encryption types	WEP/WPA/WPA2/Mixed mode
Transmitting Power	802.11b 18 ± 2 dBm
	802.11g 15 ± 2 dBm
	802.11n 15 ± 2 dBm
	802.11a 14 ± 2 dBm
	802.11ac 14 ± 2 dBm
Sensitivity	802.11b -76dBm
	802.11g -65dBm
	802.11n -61dBm
	802.11a -64dBm
	802.11ac -59dBm
Antenna	2.4 GHz: 50 Ω SMA (center pin: male) * 2
	5 GHz: 50 Ω SMA (center pin: female) * 2
Environmental	
Operating temperature	-20 ~ +55 °C
Storage temperature	-40 ~ +85 °C
Ambient Relative Humidity	5 to 95% (non-condensing)
Enclosure / Rating	Aluminum / IP30
Standards and Certifications	
Pending	

### 3. Hardware interface





## 4. Installation

1. Put in the SIM card.
2. Connect WiFi antenna, GPS antenna and LTE antenna.
3. Connect the power cable and power on the router.
4. Wait and watch the status LEDs.

## 5. Default settings

Default WiFi SSID is BusMovie.net\_XXXX(XXXX is the last four bytes of SN code.). Console address is 10.10.10.1. Default user name is root, default password is ubt3018.

## 6. Contact

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## 7. Disclaimer

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