



A-9N Quick Start Guide Fanless Edge Computing Controller

Ver:1.02_202403



A-9N setup steps: update wire or wireless correctly in order to login in Node-RED develop interface

CONTENTS OF LIST	page 1/9
(I) Hardware establish/connection(ref. graph1)	
1.1 Prepare Hardware and Cables: A/B/C/D/E	page 2/9
1.2 A: Wiring USB Cable	page 2/9
1.3 B: Wiring RJ45 Cable	page 2/9
1.4 C: Wiring 24VDC Extend Power	page 2/9
1.5 D: Wiring Micro HDMI Port	page 2/9
1.6 E: Wiring EXTEND 1~3 Piece Of RS485 Slave	page 2/9

(II) Parameters update

1. Power on and check initial parameters

1-1. Power on	page 3/9
1-2. Check initial parameters(key in Linux command)	page 3/9
2. Update Ethernet parameters(jump to step 3 directly if you only have WIFI network)	
2-1. Key in Linux command	page 4/9
2-2. Enter nano editor screen	page 5/9
3. Update WIFI parameters(jump to step 4 directly if you only have RJ45 Ethernet network)	
3-1. Key in Linxu command	page 6/9
3-2. Enter nano editor screen	page 7/9
4. Enter the development interface(select any one of the wire or wireless connection to enter)	
4-1. Setup the same domain networkpage 8/9	
4-2. Login any available browser from port 1880 with PC or smartphone)	
(for example: keyin http://19 <u>2.168.5.86:1880/)</u>	page 9/9
your PC is in the same domain	

network:192.168.5.xx

from port 1880







Page 2/9



debian@A9N:~\$

--- Wait 2 minutes for the boot until appear the device name: <u>A9N</u>

--- key in Linux command "sudo reboot" then press enter to reboot the device

--- key in command "ip a" then press enter to get initial internet parameters debian@A9N:~\$ ip a 1: lo: <LOOPBACK, UP, LOWER UP> mtu 65536 qdisc noqueue state UNKNOWN group default glen 1000 link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00 inet 127.0.0.1/8 scope host lo valid lft forever preferred lft forever inet6 ::1/128 scope host valid lft forever preferred lft forever 2: eth0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500 gdisc mg state DOWN group default glen 1000 link/ether de:ad:be:ef:ca:fa brd ff:ff:ff:ff:ff:ff permaddr e0:ff:f1:9e:a7:c2 inet 192.168.5.201/24 brd 192.168.5.255 scope global dynamic eth0, valid 1ft 30658sec preferred 1ft 30658sec --- you could find the Ethernet ip is 192.168.5.201 3: usb0: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500 qdisc pfifo fast state DOWN group default glen 1000 link/ether e0:ff:f1:9e:9a:45 brd ff:ff:ff:ff:ff:ff 4: usb1: <NO-CARRIER, BROADCAST, MULTICAST, UP> mtu 1500 qdisc pfifo fast state DOWN group default qlen 1000 link/ether e0:ff:f1:9e:9a:47 brd ff:ff:ff:ff:ff:ff 5: can0:<NOARP, ECHO> mtu 16 qdisc noop state DOWN group default glen 10 link/can 6: can1:<NOARP, ECHO> mtu 16 gdisc noop state DOWN group default glen 10 link/can 7: wlan0: <BROADCAST,MULTICAST,UP,LOWER UP> mtu 1500 qdisc mq state UP group default qlen 1000 link/ether c4:6e:1f:10:fd:91 brd ff:ff:ff:ff:ff inet 192.168.5.86/24 brd 192.168.5.255 scope global dynamic wlan0 valid lft 73795sec preferred lft 73795sec --- you could find the WIFI ip is 192.168.5.86 inet6 fe80::c66e:1fff:fe10:fd91/64 scope link valid lft forever preferred lft forever debian@A9N:~\$





debian@A9N:~\$ sudo nano /etc/systemd/network/eth0.network

 --- key in Linux command "<u>sudo nano /etc/systemd/network/eth0.network</u>" then press enter to get initial Ethernet parameters(go inside to page 5/9), need to reboot system to active the update. initial password for default account(debian) is: <u>temppwd</u>



GNU nano 5.4

[Match]

Name=eth0 Type=ether

[Link] RequiredForOnline=yes

[Network]

##DHCP DHCP=ipv4 ##STATIC IP # Address=192.168.5.251/24 # Gateway=192.168.5.1 # DNS=192.168.5.1 - - -initial is DHCP(white letters), please add "#" in front these four white lines and remove"#" in front these six blue lines, then save to change to static address(below is the example)

[Match] Name=eth0
Type=ether
[Link]
RequiredForOnline=yes
[Network]
##DHCP
#DHCP=ipv4
##STATIC IP
Address=192.168.5.251/24
Gateway=192.168.5.1
DNS=192.168.5.1

---How to save?

use Ctrl+X to exit, and will ask you if save or not, press Y to save and N to not save





debian@A9N:~\$ sudo nano /etc/wpa_supplicant/wpa_supplicant-wlan0.conf

--- key in command "<u>sudo nano /etc/wpa_supplicant/wpa_supplicant-wlan0.conf</u>" then press enter to get inital WIFI parameters(go inside to page 7/9), need to reboot system to active the update. initial password for default account(debian) is: temppwd



GNU nano 5.4

/etc/wpa_supplicant/wpa supplicant-wlan0.conf

ctrl_interface=DIR=/run/wpa_suppli	cant GROUP=netdev
pdate_config=1	
o2p disabled=1	

#country=US

network={

ssid="A9N" psk="szatc803"

- ---initial SSID is A9N(white letters)
- ---initial password is szatc803(white letters),
- ---replace your real SSID and Password then save to update (below is the example)

ctrl_interface=DIR=/run/wpa_supplicant GROUP=netdev
update_config=1
p2p disabled=1

#country=US

network={

ssid="<u>your real SSID</u>" psk="<u>your real password</u>"

---How to save?

use Ctrl+X to exit, and will ask you if save or not, press Y to save and N to not save













Shenzhen ATC Technology Co.,Ltd

Add. Room 803, Block D, Building 16, South Station Enterprise City,Port Road Nanhai District, Foshan, China,528251 Tel: (86 757) 8676 7929 www.szatc.com Email: tech@szatc.com sales@szatc.com