

## 5G Labs – Training Day3

#### Apr 2025

Confidential

## 5G LABS Training - Day3

MEC – Usage, Application installation, Route traffic through MEC.

5G Camera – Operation.

5G Evaluation board – 5G Modem, APN settings, AT commands.

5G Usecases – Camera object detection code.

XR Headset – Construction app installation, further usage.

### 5G Camera

#### To Login to camera through web browser:

#### http://10.101.0.67:8080

Username: admin Password: admin123



### 5G Camera – use case (Object detection)

ssh -x <u>st@192.168.10.12</u> Password: mec@5glabs

Ping camera IP address.
> ping 10.101.0.67
> python3 camera\_pipe.py

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1. Connect 5G Antennas to ANT1&9

2. Point the switch towards the marked pin for USB Boot

3. Move the switch to on position

4. Connect the module to the Raspberry pi via USBC-USBA Cable

5. Connect a micro HDMI to HDMI cable from raspberry pi to a monitor.

6. Connect a mouse and keyboard to Raspberry Pi

7. Connect a DC Power Supply (12V-5A)

8. Connect earphones for sound

9. Check how to configure each of the peripherals in their respective sections in the USER GUIDE.

#### **Important note:**

Do not connect power supply directly to RPI, only power supply should be connected to UE Evaluation Board





## Eval board – 5G Registration

#### Telit 5G module on evalboard:

- 1. Connect HDMI to the monitor
- 2. Login username: aryaman
- 3. password: 12345678

Q	Settings $\equiv$	Mobile Network	- 0
((:•	Wi-Fi		
Ģ	Network	Network	
୍ଲ	Mobile Network	Mobile Data Access data using mobile network	)
*	Bluetooth	Data Roaming Use mobile data when roaming	)
Ţ	Displays		
<b>(</b> ))	Sound	Network Mode 5G Only	>
٢	Power	Network Test PLMN 1-1	>
Ō	Multitasking		
Ţ	Appearance	Advanced	
Ð	Ubuntu Desktop	Access Point Names	>
	Apps	SIM Lock Disabled	>
Û	Notifications	Modem Details	>

Q Search

### Eval board







SIM Arduino

TDS sensor

SIM insertion

Important:-

Do not use the Firefox Browser installed in the Raspberry Pi, It crashes the modem manager of the OS rendering the 5G module useless until reboot. Use chromium instead and if it is not installed, install it by typing the following command in the terminal:

### AT Commands

AT Commands or 'Attention' Commands is the basis of communication between any cellular modems and its host controller.

#### Login to evalboard.

- Sudo minicom –D /dev/ttyUSB2
- ≻ at
- ≽ОК
- > at+cops?
- ➤+COPS: 0,0,"niralos",11