

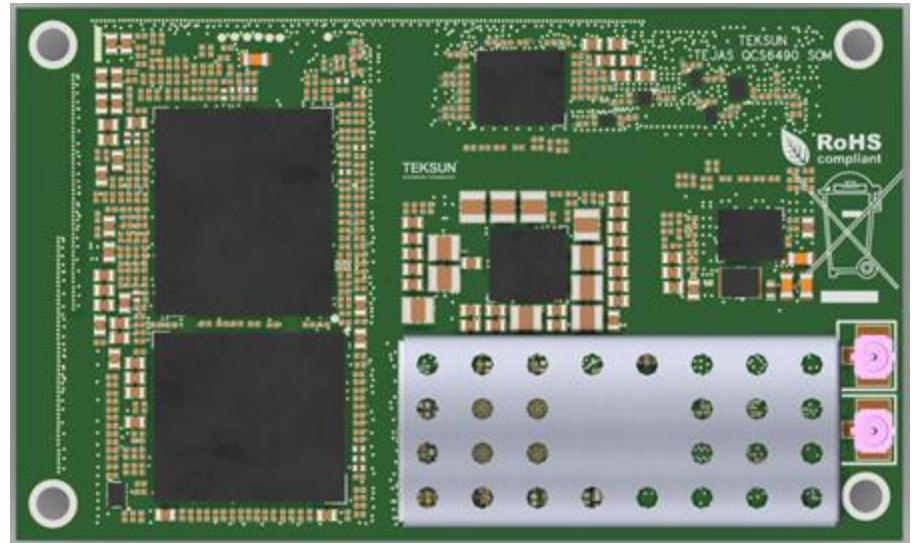
# Rapidise IP Products



**RAPIDISE**  
QUALITY DELIVERED

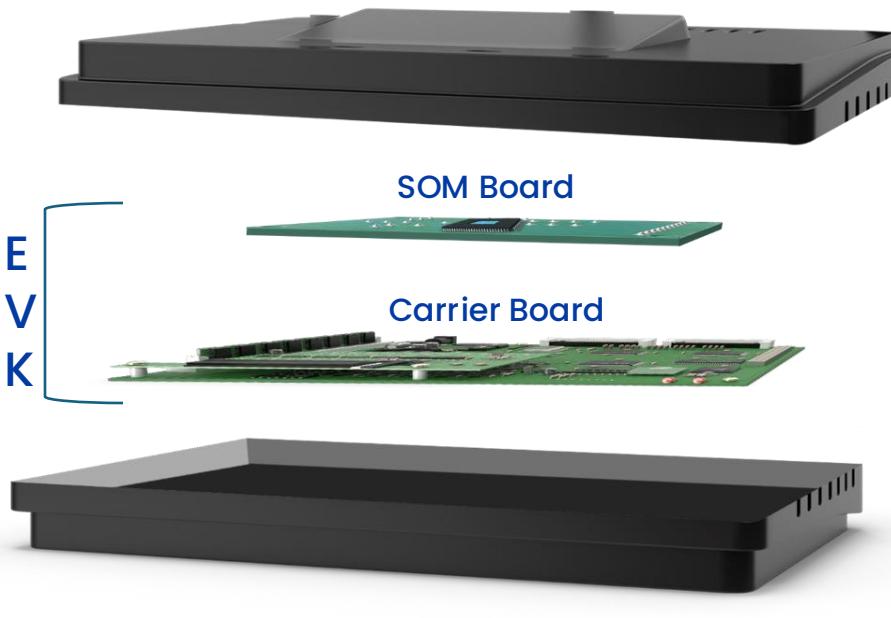
A Joint Venture of  
**Napino & Teksun**

Powered by **Qualcomm® QCS6490 Processor** with **re-engineered Hexagon™ processor**, offering astonishing performance up to 12 TOPS with minimal power consumption. Ideal for rugged handhelds, EDGE AI box, Security cameras & industrial robots, seamlessly integrating USB 3.1, PCIe for edge computing



## Technical Specification

- Platform : Qualcomm™ QCS6490
- CPU : Qualcomm® Kryo™ 670 CPU
- GPU : Adreno™ GPU 643, Adreno 633 VPU, Adreno DPU 1075
- Memory/Storage : 8GB LPDDR5, 128GB UFS
- Connectivity : WLAN: 802.11 a/b/g/n/ac/ax over PCIe with DBS, 2x2 MIMO (Wi-Fi 6E) Bluetooth® 5.2
- Operating System : Android
- Operating Environment : -30 to +85 °C
- Video Performance : Up to 4K30 encode for H.264/H.265 Up to 4K60 decode for H.264/H.265/VP9



On Carrier Board

## Platform

SOC - Qualcomm QCS6490  
CPU - Qualcomm® Kryo™ 670  
GPU - Qualcomm® Adreno™ 643L  
Video Processor - Adreno VPU 633  
System Memory - RAM 8GB  
NPU: 12 TOPS  
Android OS

## Wireless Connectivity

WiFi + BLE - Inbuilt Support for  
Wi-Fi + BLE  
4G - Support M.2 3042 4G/3052  
(4G module optional)

## Interfaces

USB | Ethernet | COM Port | DI/DO

### Display Interfaces

1 x HDMI OUT | 1 x DP V1.4 (Over Type-C)

### Audio Interfaces

1 x Speaker OUT | 1 x HDMI IN AND 1 x  
HDMI OUT with Audio (Over I2S interface)

### Camera Interface -

3 x 4-lane D-PHY Camera, 2 x GMSL

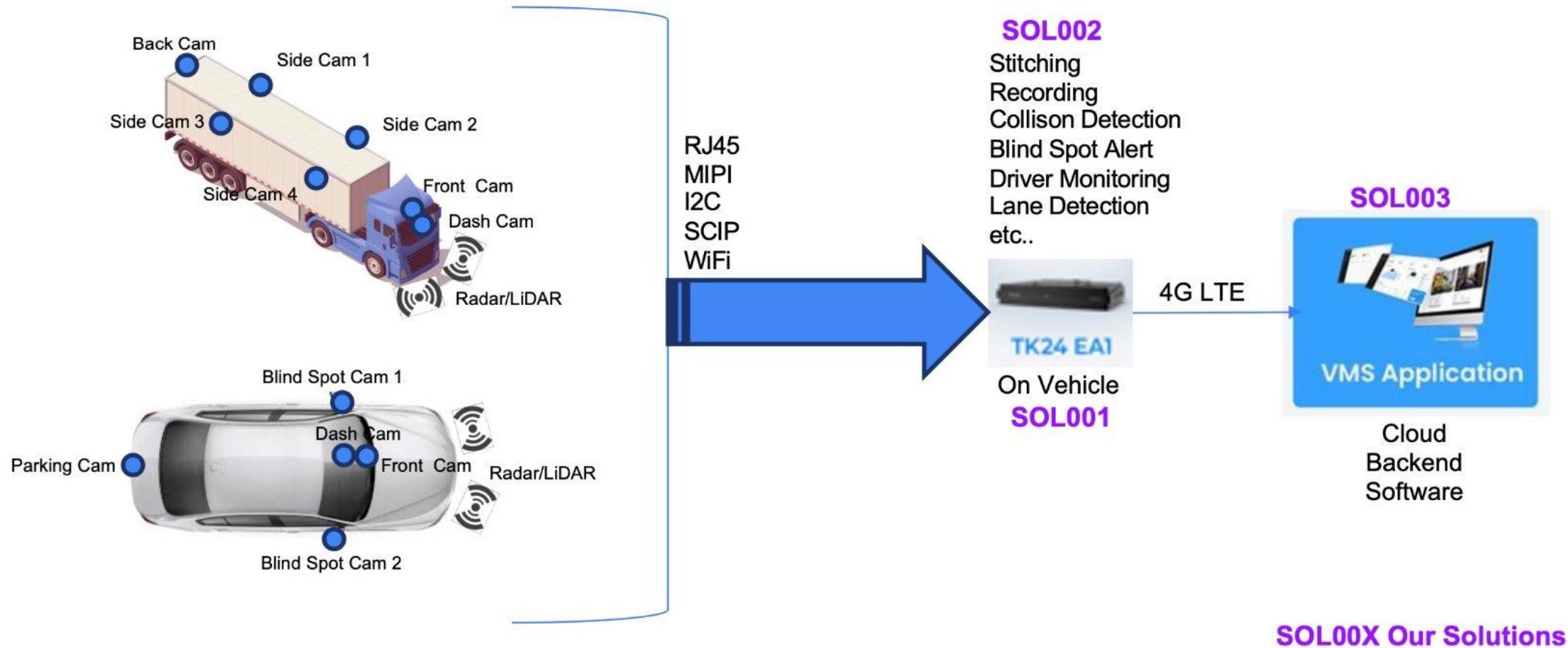
## Storage

Flash - 128GB eMMC

Expansion - SD Card, M.2 2280 SSD NVMe

# Rapidise Edge AI Box Eco System





## Industry 4.0

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- Product Inspection
- Shorting
- Predictive Maintenance
- Workforce Safety
- Energy Management
- Productive Measurement

## Healthcare

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- Heart Rate
- Blood Oxygen (SPO2)
- Physiotherapy
- Fall Detection
- Worker Stress Monitoring

## ADAS/DMS

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- Collision Detection: Vehicle | Pedestrian
- Traffic Sign Detection
- Drowsiness
- Occupancy
- Distraction
- Seat Belt

## Retail Industry

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- Head Count
- HeatMap
- Demographic Analysis
- Suspicious Behaviour Identification
- Face Recognition

## Traffic

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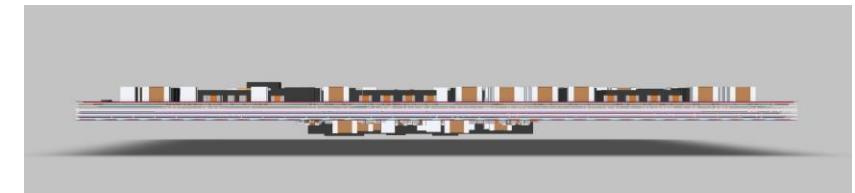
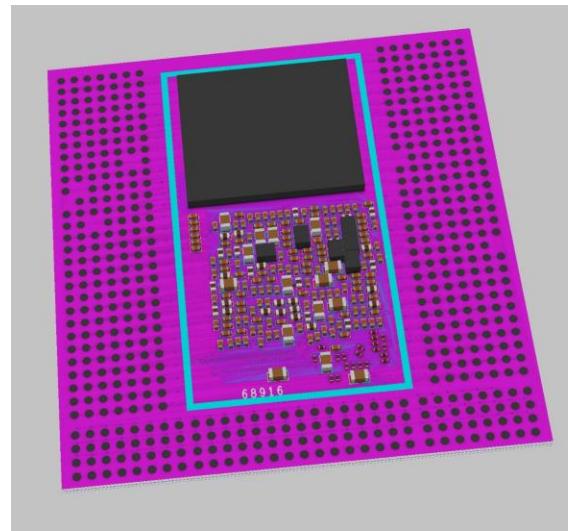
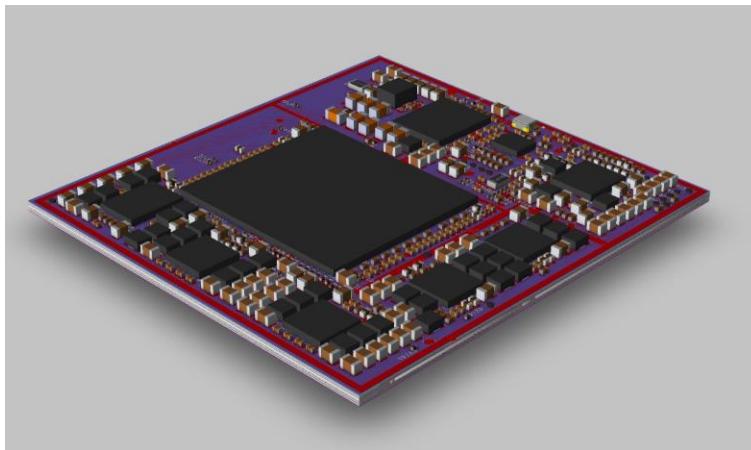
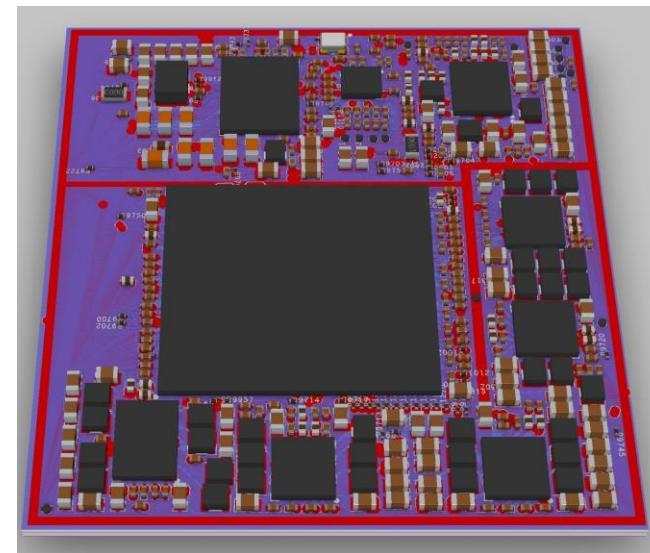
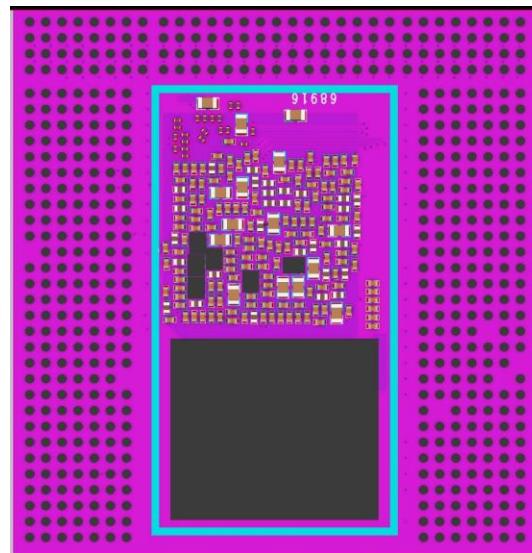
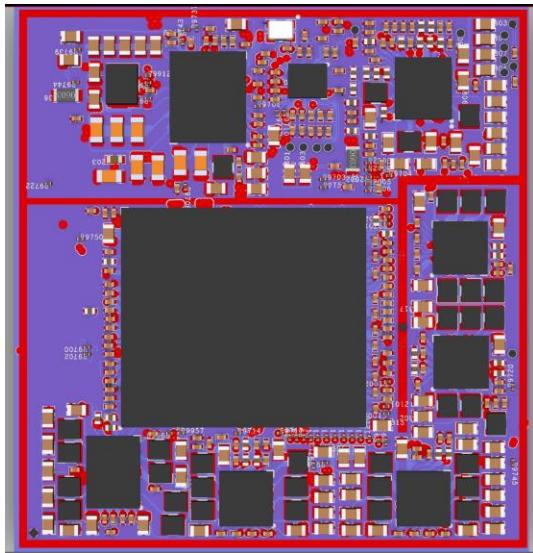
- Automatic Number Plate Recognition
- Vehicle In Out Monitoring
- No Helmet
- No Parking

## Security & Surveillance

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- Intrusion Detection
- Gun and Gunshot Detection
- PPE Kit Detection
- Activity Tracking
- Fire and Smoke

# Qualcomm 8550 SoM - 33 mm X 35 mm



## Tejas

### High Power Multimedia Application Products

Qualcomm Processors and Dedicated DSP with LTE & WiFi.



## STEM

### Telemetry & Tracking Modules

GPS, GSM/NB IoT based Location and Environment Trackers, Indoor RTLS with BLE, UWB, WiFi, LORA, ZigBee, Z Wave Modules



STEM



N Tag Beacon



E Label



Data Logger

## Astra

### Smart Industry 4.0 Solutions

Ready to use Industrial TI / NXP SOM and HMIs



## Telep

### Ready to Use AI Algorithms

Hardware agnostic ready to use Machine Learning Algorithms for different AI Applications.





**Rapidise Tejas  
SOM Board**



**Tejas Edge  
IoT Gateway**



**Rapidise Tejas  
LTE Camera**



**Rapidise Astra  
HMI Solution**



**Rapidise Tejas  
Infotainment**



**Rapidise Indoor  
Tracking System**



**Astra Linux  
SOM Board**



**Rapidise Tejas  
10'' HMI**



**Rapidise Tejas  
IPTV Box**



**Rapidise IoT  
Turbo Gateway**

Tejas™ Camera is a cutting-edge AI-enabled Camera Solution for your **Computer vision enabled Camera** product. It gets its processing power from **Qualcomm 625** having 16GB eMMC and 2GB LPDDR3 memory and state of art firmware capabilities with **Android 9.0**. Being focused on Camera-based IoT & AI Applications, Tejas Camera Solution carries wireless technology (**LTE, WiFi, BLE**) provisions as well as inbuilt **GPS, Microphone, and Speaker**.

## Specifications:

- SOC: Quectel SC600T (Qualcomm 625)
- Night Vision IR LED with IR Cut Filter
- Board Dimension : 60mm x 60mm x 5mm
- Resolution: 5MP
- Camera Sensor: Sony iMX335 (STARVIS Technology)
- RAM: 2GB LPDDR3 Memory
- Non-volatile memory: 16GB eMMC
- Power Supply: 5V, 3A
- Charging Type: USB TYPE C
- Backup Battery: 3000mah
- Temperature Range: -25°F to 167°F



Tejas Infotainment is a cutting-edge **IoT-enabled Smart HMI/UI Solution** that offers high-end display interface and seamless connectivity to drive a Premium User Experience. It gets its processing power from **Qualcomm 625** having 16GB eMMC and 2GB LPDDR3 memory and state of art firmware capabilities with **Android 9.0**. Being focused on IoT based Applications, Tejas TM Infotainment Solution carries wireless technology (**LTE, WiFi, BLE**) provisions as well as inbuilt **GPS, Microphone, and Speaker**.

## Specifications:

- SOM Board Dimension : 60mm x 60mm x 5mm
- GPU: Adreno 506 with 64-bit addressing
- SOC: Quectel SC600T (Qualcomm 625)
- Charging Type: USB TYPE C. Build-in Charge IC & Fuel Gauge, Qualcomm Quick Charge 3.0 technology
- Temperature Range: -25°F to 167°F
- WiFi: 2.4G/5G, 802.11 a/b/g/n/ac
- BLE: BT2.1+EDR/3.Q/4.I LE/4.2 BLE
- External Storage: 256GB SD Card
- SOM Certification: CE/FCC/UL



Developed for **IoT & AI Edge computation** applications, Rapidise's Tejas Turbo Receiver offers high processing power and seamless wireless connectivity for Sensors Network applications.. Tejas Turbo Receiver is power packed with **Qualcomm Snapdragon 625** that carries an octa-core ARM Cortex-A53 64-bit CPU, a 16GB eMMC and a 2GB LPDDR3 memory supported by a **Dedicated GPU** for Edge computing AI applications.

## Specifications:

- SOC: Quectel SC600T (Qualcomm 625)
- GPU: Adreno 506 with 64-bit addressing
- Wireless Connectivity: Wi-Fi, and BLE
- Operating System: Android 9.0
- Temperature Range: -35° C ~ +75° C
- USB: micro USB Type C port
- Antenna: (2.4 → 5 GHz) SMA WiFi/Bluetooth Antenna
- BT: BT2.1 +EDR/3.0/4.1 LE/4.2 BLE
- Charge Function: Build-in Charge IC & Fuel Gauge  
Qualcomm Quick Charge 3.0 technology



Tejas Care device has been designed to provide complete base for the need of multiple edge AI applications. This is running on a High-end SOM based on Tejas 625 SoM with Android 9.0 featuring 10" Touch display, 8MP Camera, Mic and Speakers.

It is having seamless connectivity with 4G, GPS, WiFi & Bluetooth for complete remote control and user interface.



Tejas 625 SOM Board : [Demo Link](#)



Tejas 625 SOM EVK: [Demo Link](#)

TEKSUN  
ELECTRONIC TECHNOLOGY

Teksun Tejas  
625 Evaluation Kit



Tejas 625 IoT Edge AI Camera : [Demo Link](#)



Tejas 625 IoT Edge AI Camera Demo: [Demo Link](#)

