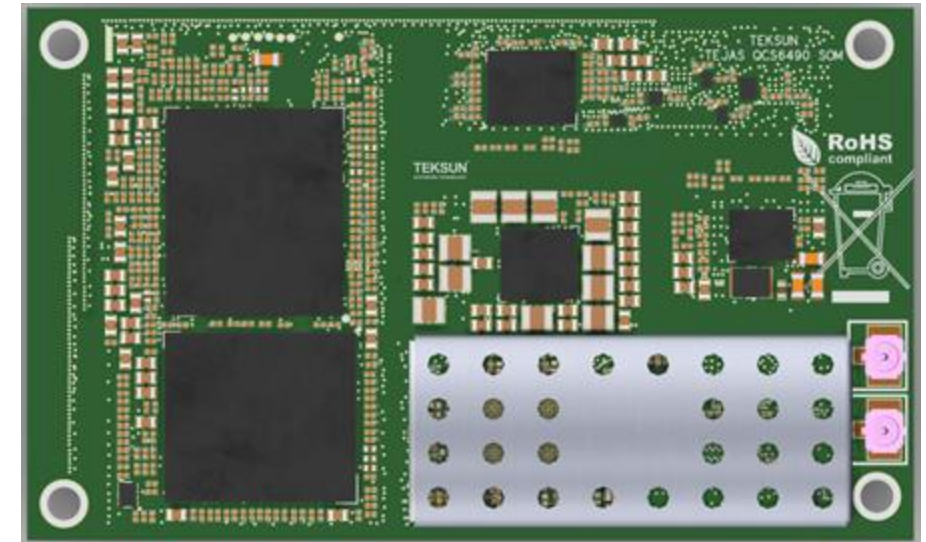


Rapidise IP Products

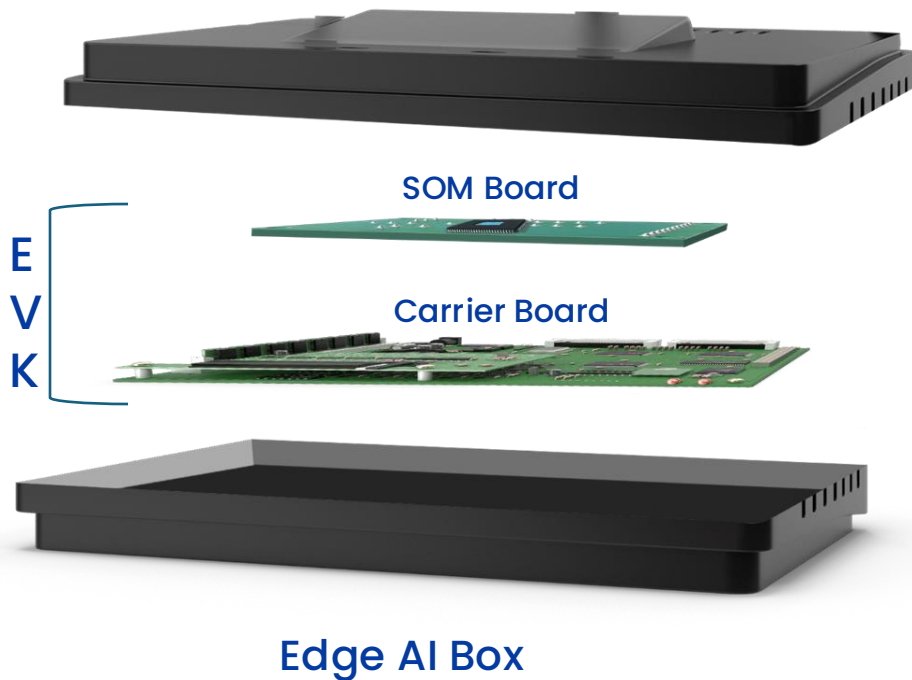


Powered by **Qualcomm® QCS6490** Processor with **re-engineered Hexagon™ processor**, offering astonishing performance **up to 12 TOPS** with minimal power consumption. Ideal for rugged handhelds, EDGE AI box, Security cameras & industrial robots, seamlessly integrating USB 3.1, PCIe for edge computing



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 -

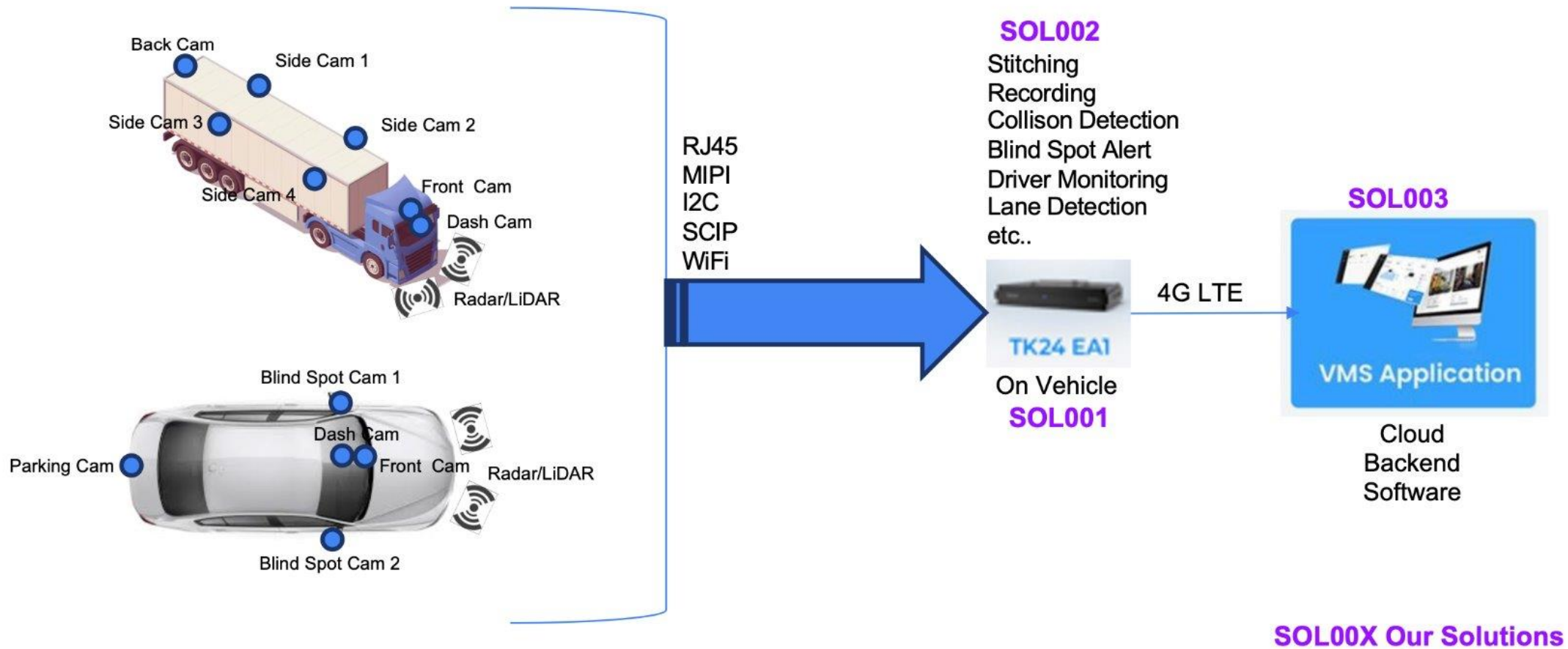
3 x 4-lane D-PHY Camera, 2 x GMSL

Storage

Flash - 128GB eMMC

Expansion - SD Card, M.2 2280 SSD NVMe





Industry 4.0

Product Inspection
Shorting
Predictive Maintenance
Workforce Safety
Energy Management
Productive Measurement

Retail Industry

Head Count
HeatMap
Demographic Analysis
Suspicious Behaviour Identification
Face Recognition

rapidise.co

Healthcare

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

Traffic

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

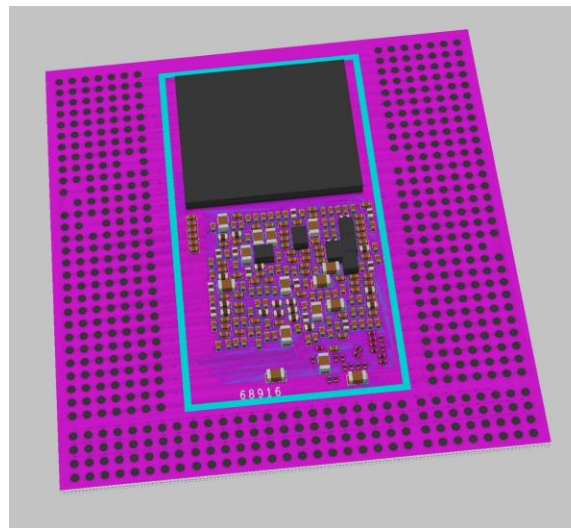
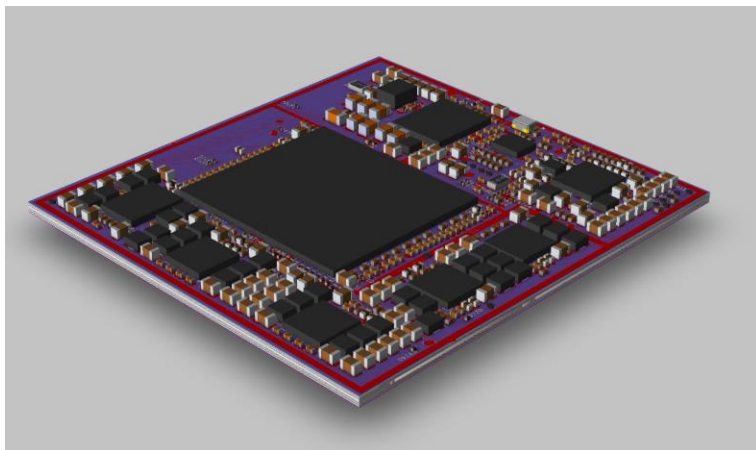
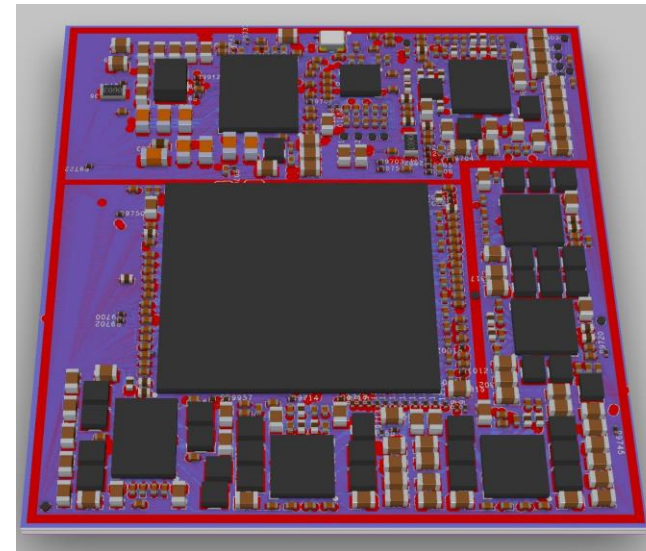
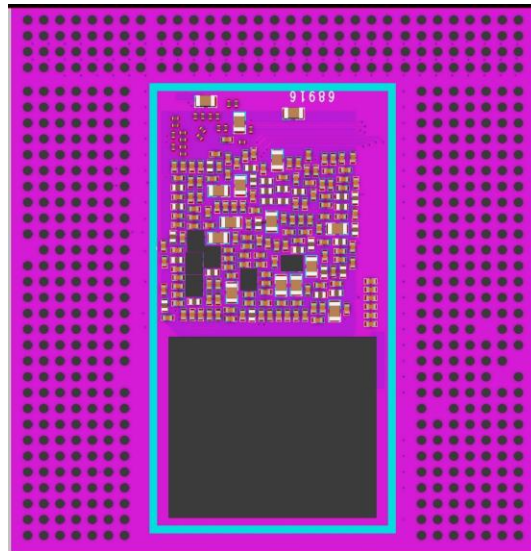
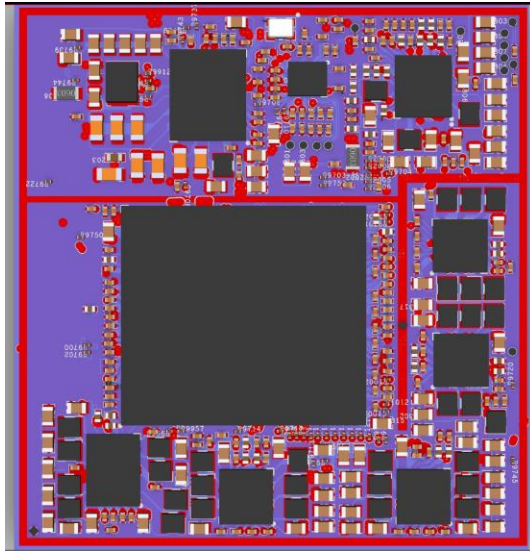
ADAS/DMS

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

Security & Surveillance

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.



Astra

Smart Industry
4.0 Solutions

Ready to use
Industrial TI /
NXP SOM and
HMIs



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

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/4.1 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](#)



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



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

