

RT-702 - Rugged Tablet

Kaleidoscope's line of Rugged devices allows enterprises to bring Internet enabled applications and SaaS to the field with ease, making interaction with your IoT enabled devices in the toughest of environments a worry from the past.



A rugged device built for the field

Kaleidoscope's RT-702 is an industrial class IP67 rated tablet designed to meet military standards for the toughest of deployments in the field. The RT-702 has been designed from the ground up with harsh conditions in mind, and from impact-resistant rubberised housing to the use of Corning's Gorilla Glass protection, the RT-702 is a device built ready for direct field deployments.

The RT-702 has been built with "Cloud First" in mind and can be tracked throughout the field (thanks to a combination of RFID, GPS, GLE, and WiFi fingerprinting) and managed directly through the central Kaleidoscope Cloud.

Applications delivered "Over the Air"

Kaleidoscope's "Over the Air" delivery of both browser based applications (SaaS) and firmware updates, ensures that your devices in the field are always running at their optimum, whether delivered over Wifi, or Cellular connections.

Additionally, our Docker™ for Android container technology allows for your devices to be locked down, ensuring that staff only access features and functionality that your enterprises permits without worrying about unauthorized applications being installed, or settings & configuration being changed.



64-Bit, Quad Core, Cortex-A53 ARM CPU



IP67 Waterproof, Shockproof and Dustproof



High-brightness 7" 1000 cd/m2 display with toughened touch-panel



Titanium alloy frame



2G, 3G, 4G/LTE, Wifi & BLE support



3GB Ram, 32GB SSD



Long life 9650 mAh battery

Specifications

Network:

Wifi:

- 2.4 GHz IEEE 802.11 a/b/g.
- 5 GHz IEEE 802.11 n.

Supported frequency bands:

- 2.412 - 2.484 GHz.
- 5.160 - 5.825 GHz.

2G/3G/4G Supported frequency bands:

- GSM (B2/3/5/8).
- TD-LTE (B38/39/40/41).
- WCDMA (B1/2/5/8).
- FDD LTE (B1/3/7).
- TDSCDMA (B34/39).

Bluetooth Support:

- BT v2.1+EDR/BT 3.0+HS Compliance/ Bluetooth v4.0 BLE.

Antennas:

Integrated omni-directional 3 & 5 dBi antenna's for BT, Wifi, and Cellular radios.

Chipsets:

Quad-core Cortex-A53 ARM 64-Bit CPU.

3GB DDR3 SDRAM.

32GB On-board storage.

Power & Battery:

Integrated 9650 mAh Battery with 5v DC power input.

Interfaces:

1x USB 3.0 Type-C 24pin I/O.

1x 3.5mm Audio Jack.

1x Micro-SD Card Input (T-Flash - Up to 64GB Supported).

1x 1.8/3.3V Sim Card Slot.

Screen:

7" inch IPS/AFFS; 720x1080 199 cd/m2 Corning Gorilla Glass, sunlight readable display.

Cameras:

- 1x 13.0 MP (AF Electro-flash) rear-facing camera.
- 1x 5.0 MP front-facing camera.

Location Services:

GPS Support for A-GPS/EPO (Approximately 5-10m Accuracy).

Dimensions & Weight:

202x132x21 mm with 640g weight (excluding accessories).

Environment:

Ambient operating temperature: -20 °C to 60 °C.

Ambient humidity: 5 to 95%.

Ingress Protection: IP67 (Suitable for outdoor usage).

Drop Test Rating: MIL-STD-810G (Military standard rating).

Maximum Operating Altitude: 4500m.

In-Built Sensors:

- Directional Sensor.
- Gravity Sensor.
- Motion Sensor.
- Rotation Vector Sensor.
- Gyroscope Sensor.
- Electronic Compass (Magnetic Field Sensor).

Regulatory Certifications:

CCC/CE/FCC/ROHS.

IP67 (IEC 60529).

Security:

2048bit TLS certificate based integrated encryption for all traffic transmitted between device and Kaleidoscope Cloud.

Warranty:

12 month hardware replacement warranty with Kaleidoscope "replace in advance" program optionally available for large scale deployments.

Kaleidoscope Cloud:

End-to-end support with device registration in Kaleidoscope Cloud, and Kaleidoscope Edge Computing Support for Over the Air Updates. Data ingress and Kaleidoscope Cloud services billed separately.

Color Options:

Available in Yellow + Black ABS Plastic Moulding.