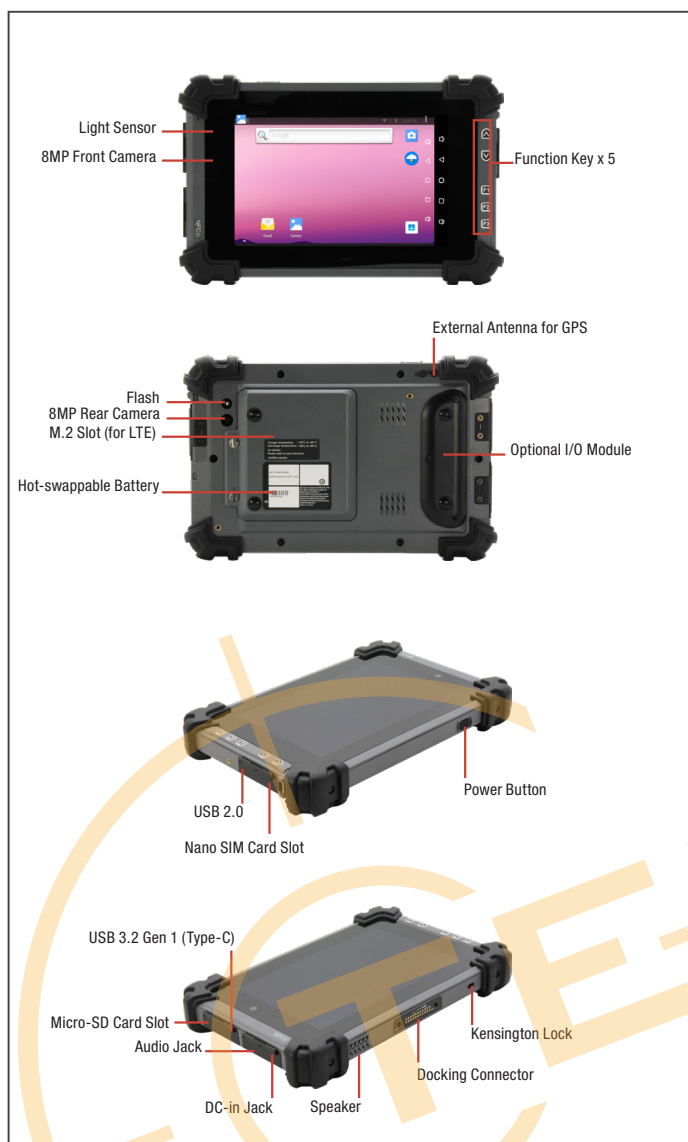


RTC-710RK

7" Rugged Tablet ARM-based Android™ with 1.6 GHz Quad Core Processor



Features

- 7" WXGA (1280 x 800) 700-nit TFT LCD
- Rockchip RK3399K Processor
- Onboard LPDDR4 Memory, 2GB (Default) / 4GB
- eMMC 16GB (Default) / 32GB / 64GB
- Projected Capacitive Multi-Touch Screen
- WiFi 802.11b/g/n, Bluetooth 4.2, LTE (Optional)
- 8MP Front and 8MP Rear Camera
- UART Port + 10/100/1000 Base-T RJ45 via I/O Module (Optional)
- USB 3.2 Gen 1 Type-C x 1, USB 2.0 Type-A x 1
- 2D Barcode Scanner via I/O Module (Optional)
- GPS + GLONASS (Default), BeiDou (Optional)
- One Hot-swappable Battery + Internal Battery, Up to 44W Battery Capacity
- MIL-STD-810G, IP65 Compliant, Drop 150cm
- Programmable Function Key: F1, F2, F3, Volume Up/Down, With LED Illumination
- Android 11



Barcode Scanner (Optional)	2D Barcode scanner, OPTICON MDI-4100-USB via I/O module (Optional)
HF RFID (Optional)	—
Audio	Speaker x 1
Physical Key	F1 (Audio On/Off), F2 (Screenprint), F3 (Barcode Scanner Trigger), Volume Up, Volume Down
Mechanical	
Color	Dark Gray
Dimension (W x H x D)	8.65" x 5.46" x 0.94" (219.8 x 138.8 x 23.9 mm)
Gross Weight	1.54 lb (0.7 Kg) based on configurations
Environmental	
Operating Temperature	-4°F ~ 140°F (-20°C ~ 60°C) for high-brightness version
Storage Temperature	-22°F ~ 158°F (-30°C ~ 70°C)
Humidity	MIL-STD-810G Method 507.5
Environmental Sealing	IP65
Vibration	MIL-STD-810G Method 514.6
Drop	MIL-STD-810G Method 516.6 Procedure IV
Shock	MIL-STD-810G
ESD	Air charge: +/- 8KV, Contact charge: +/- 4KV
Certifications and Standards	UL62368-1, CE EMC, CE RED WiFi 2.4G+5G; CB; FCC EMC, FCC RF WiFi 2.4G; UKCA / UL; TELEC WiFi / LTE
Power Supply	
AC / DC Adapter	AC 100 ~ 240 V, 50 ~ 60 Hz, Output: 12V/ 3.34A/ 40W
Battery Life	Li-ion Battery 8-hour battery life based on test configurations
Master Battery	7.2V, 4540mAh, 32.7W
Slave Battery	Hot-swappable battery: 7.4V, 1530mAh, 11.3W (Optional)
Display	
LCD	7" TFT-LCD / 16:10, with LED backlight
Resolution	1280 x 800
Maximum Color	—
Dot Size	0.03925(H) X 0.11775(V) mm
Brightness	700 / 300 nits
Viewing Angle	Horizontal: 178° (Typ.), Vertical: 178° (Typ.)
Touch Screen	
Touch Type	7" Projected Capacitive Multi-Touch Screen (700 nits with 10 points)
Light Transmission	Min. 85%

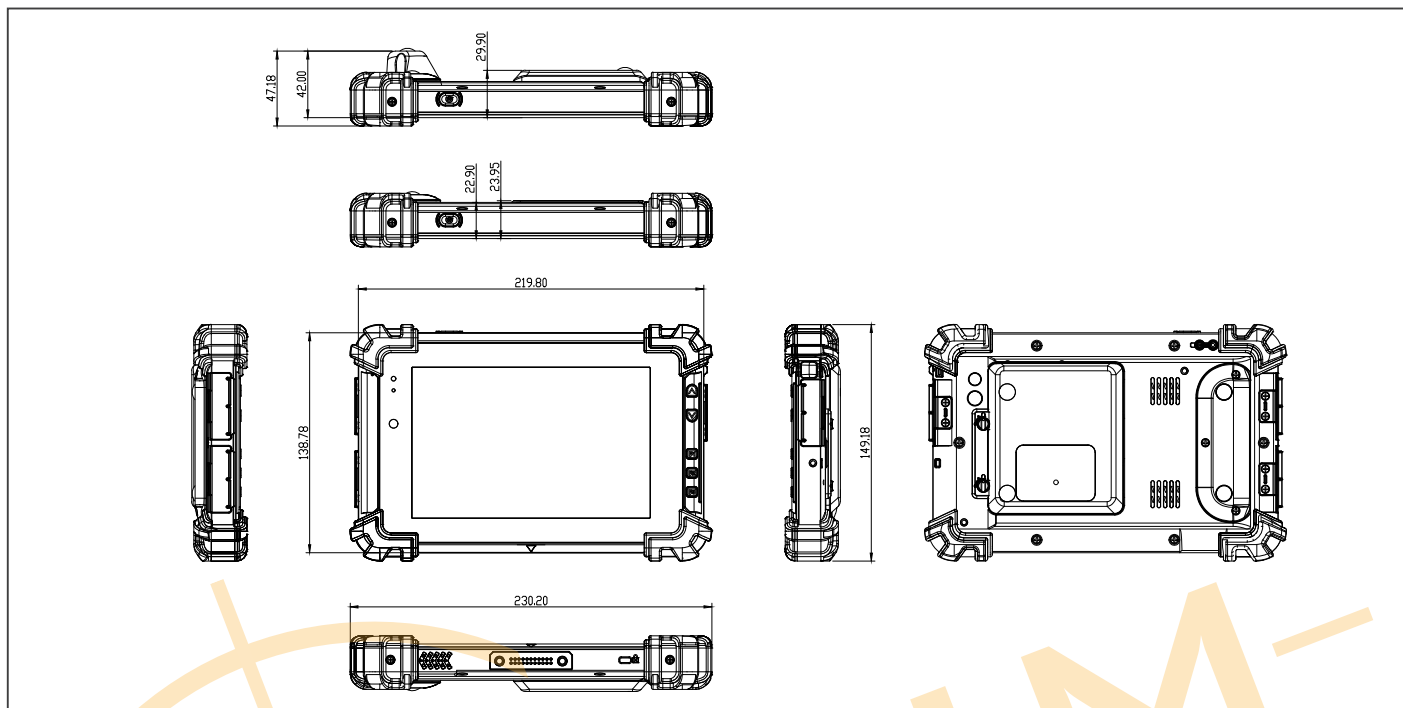
Specifications

System Architecture	
Processor	Rockchip RK3399K Processor (Quad-Core A53 1.6GHz & Dual-Core A72 2.0GHz)
Operating System	Android™ 11 (No NFC function)
Memory	Onboard LPDDR4 2GB (Default) / 4GB
Storage	eMMC 16GB (Default) / 32GB / 64GB
Display	7" WXGA (1280x800) 700-nit TFT LCD With Projected Capacitive Multi-Touch Screen
I/O Port	SIM card slot x 1 USB 3.2 Gen 1 Type-C x 1 Audio jack x 1 (3.5mm) DC-in jack x 1 Micro-SD card slot x 1 USB 2.0 Type-A x 1 UART Port x 1 (Via I/O Module) 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)
Communication	Wi-Fi 802.11 b/g/n, Bluetooth v4.2 (EDR + BLE)
Navigation	GPS + GLONASS (Default), BeiDou (Optional), External Antenna (Optional)
WWAN(optional)	LTE via M.2 slot (Optional) Hot-swappable Battery can not be used when LTE module is installed.
Camera	8MP front camera 8MP rear camera with flash
Sensor	G-sensor, E-compass, Gyro-sensor, Light-sensor
Expansion Slot	M.2 slot x 1 Docking connector: USB 3.2 Gen 1 x 1



Dimension

Unit: mm



Packing List

- **RTC-710RK**
 - **1255X00008**
 - AC-To-DC Power Adaptor, 12V, 40W
- *Power cord must be purchased separately.

Optional Accessories

- **RDS-0710-000**
Docking Station
- **RDS-0710-001**
Docking Station, W/ Stand
- **RTC-710-HS-000**
Hand Strap
- **RTC-710-BAG-000**
Carry Bag
- **RDS-0040-0000**
4-Bay Battery Charger
- **9741600R04**
Battery Pack, 7.4V, 1530mAh, 2pcs/Box
- **RTC-710-VMP-000**
VESA Mount Plate, for I/O Module Excluded
- **RTC-710-DTDP-000**
- Car Adapter, Cigarette Plug
- **170X000799**
Power Cord for USA
- **170X000800**
Power Cord for Europe
- **170X000803**
Power Cord for UK
- **170X000803**
Power Cord for Japan

Ordering Information

Part Number	CPU	OS	LCD Display	Touch Screen	System Memory	Storage	Expansion I/O	Sensor	WiFi/Bluetooth	Navigation	LTE Bands (MHz)	Camera	Docking	2D Barcode Scanner	Battery	Power
RTC-710RK-RH0001	RK3399K	Android 11	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	—	—	Front: 8MP	—	—	32.7W (internal)	DC12V
RTC-710RK-RH0002	RK3399K	Android 11	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	32.7W + 11.3W	DC12V
RTC-710RK-RH0003	RK3399K	Android 11	7" 700 nits	PCT 10 points	LPDDR4 2GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, UART Port x 1 (Via I/O Module), 10/100/1000 Base-T RJ45 x 1 (Via I/O Module)	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	32.7W + 11.3W	DC12V
RTC-710RK-RH0004	RK3399K	Android 11	7" 700 nits	PCT 10 points	LPDDR4 2GB*	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1, 2D BCR x 1 (Via I/O Module)	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	Yes	32.7W + 11.3W	DC12V
RTC-710RK-RH0005	RK3399K	Android 11	7" 700 nits	PCT 10 points	LPDDR4 4GB	eMMC 16GB	SIM card slot x 1, USB 3.2 Gen 1 Type-C x 1, Audio jack x 1 (3.5mm), DC-in jack x 1, Micro-SD card slot x 1, USB 2.0 Type-A x 1	G-sensor Gyro-sensor Light-sensor	802.11 b/g/n + BT4.2	GPS / GLONASS	—	Front: 8MP Rear: 8MP w/ Flash	Yes	—	32.7W + 11.3W	DC12V

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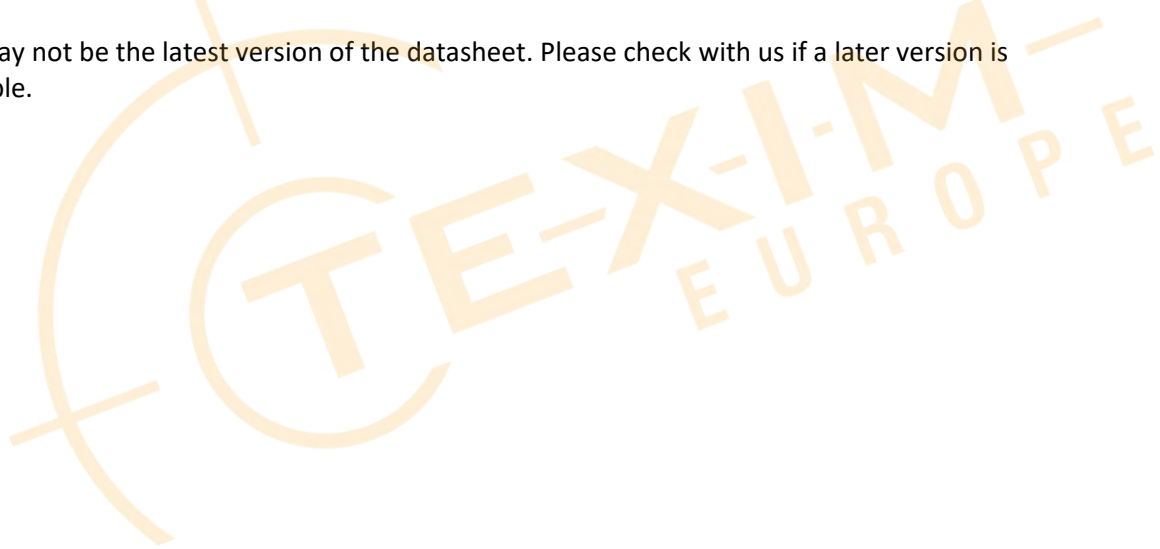
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All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts.

Please contact us if you have any questions about the contents of the datasheet.

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Headquarters & Warehouse

Elektrostraat 17
NL-7483 PG Haaksbergen
The Netherlands

T: +31 (0)53 573 33 33
E: info@texim-europe.com
Homepage: www.texim-europe.com



The Netherlands

Elektrostraat 17
NL-7483 PG Haaksbergen

T: +31 (0)53 573 33 33
E: nl@texim-europe.com



Belgium

Zuiderlaan 14, box 10
B-1731 Zellik

T: +32 (0)2 462 01 00
E: belgium@texim-europe.com



UK & Ireland

St Mary's House, Church Lane
Carlton Le Moorland
Lincoln LN5 9HS

T: +44 (0)1522 789 555
E: uk@texim-europe.com



Germany

Bahnhofstrasse 92
D-25451 Quickborn

T: +49 (0)4106 627 07-0
E: germany@texim-europe.com



Germany

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: muenchen@texim-europe.com



Austria

Warwitzstrasse 9
A-5020 Salzburg

T: +43 (0)662 216 026
E: austria@texim-europe.com



Nordic

Stockholmsgade 45
2100 Copenhagen

T: +45 88 20 26 30
E: nordic@texim-europe.com



Italy

Martin-Kollar-Strasse 9
D-81829 München

T: +49 (0)89 436 086-0
E: italy@texim-europe.com