



THINCKIN 森克

**YOUR ONE-STOP SUPPLIER OF RUGGED AND INDUSTRIAL
COMPUTER SOLUTIONS**

About US



Senke was established in 2012. Based on its core strengths in information display and human-computer interaction, Senk encompasses a comprehensive business system covering product design, R&D, manufacturing, and sales. The company has multiple production bases across China, located in cities such as Guangzhou, Shanghai, Suzhou, Beijing, Foshan, Dongguan, Hangzhou, and Guiyang, with a total area of nearly 30,000 square meters. It supports OEM and ODM, providing customers with professional and comprehensive commercial display solutions.

Today, Senk boasts a mature, comprehensive, and forward-looking R&D system, currently employing a dedicated R&D team comprising 20% of its total workforce, and holding over 50 product technology patents and software copyrights. Simultaneously, it has established a nationwide production base with over 30 sets of various production and testing equipment and 20 production lines, possessing full-process manufacturing capabilities.

Suzhou Thinckin Electronics Co., Ltd., established in 2018 and headquartered in Suzhou, specializes in one-stop rugged industrial computer solutions. Adhering to the philosophy of "customer first, mutual assistance and cooperation, dedication and progress, and attentive service," the company is committed to providing customers with the best products and high-quality services, and establishing long-term and stable partnerships. In the future, Suzhou Thinckin will continue to pursue customer satisfaction, developing into a strong and capable team with the highest quality service and the most sincere attitude!

300
million

Annual
sales

30,000+

m² house
area

350,000
+

Terminals
online

7*24

After-sales
response
service

Development History

2012

Shanghai Senke
was established



2017

Guangzhou Senke
was established



2016

Beijing Senke
was established



2018

Suzhou Thinckin
was established



2020

Awarded the title of "2020
Economic Growth Enterprise",
achieving high growth
against the trend.



2022

Multiple production bases have
been established across the
country, covering a total area
of nearly 30,000 square meters.

Qualifications and Honors



Our products and services have received consistent recognition from governments, testing institutions, and customers. They have obtained numerous authoritative domestic and international certifications, including High-Tech Enterprise, 3C, CE, ISO9001, RoHS, FCC, UL, and Energy Saving Certification. The performance parameters of our products all meet national and international standards, laying a solid foundation for our products to enter the global market.

Our advantages-Manufacturing power

Dust free workshop ▶



◀ Operation Specification



◀ Manufacturing Seminar

Area of shipment ▶



▲ New factory

Production summary ▼



Display area ▶



▲ Finished goods warehouse



◀ Production docking customers

▲ Quality inspection

Our advantages-Product Quality



All Tested ▶



OPS mini computer Failure test ▼

Vibration test ▼

▲ Product Planning



◀ High-Low Temperature Humidity test



Carton Hardness test ▶



◀ Salt spray Corrosion test

▲ Drop test



◀ Power supply Aging test

High temperature Aging test ▶



Our customers



We have over 100,000 partners worldwide, and our products are sold in more than 150 countries and regions. By joining forces with key partners, we will leverage the strengths of each to create more high-quality, customized solutions for users, achieving win-win cooperation and embarking

on a new journey together.

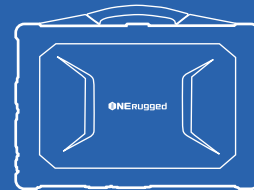
Product Line



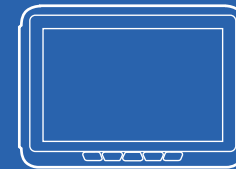
Rugged Handheld



Rugged Mobile PC



Rugged Notebook



Vehicle PC



Panel PC/BOX PC

Product Platform Classification



MEDIATEK

Rockchip



CPU

OS

Alderlake i5-1235U Windows 11
Alderlake i7-1255U Windows 10
Tiger Lake i5-1135G7
Tiger Lake i7-1165G7
JASPER LAKE N5100
JASPER LAKE N5105

CPU

OS

MT6833 Andriod 12
MT6789 Android 14

CPU

OS

RK3568 Andriod 12
RK3568J Linux

Thinckin is a rugged mobile computer brand, focusing on application scenarios and requirements, providing rugged mobile computers to drive all walks of life into a digital and intelligent world.

01**02****03****04****Panel PC/BOX PC****Rugged Handheld****Rugged Mobile PC
/ Vehicle PC****Rugged Notebook**

PART
01

01



Panel PC/BOX PC



Panel PC-YPC-ZD



Panel PC

- 7gen/10gen Intel i3/i5/i7 processor
- Available in various sizes
- Rich Interface



CPU

i3-7100U/10110U
i5-7200U/10310U
i7-7500U/10710U



Operating System

Windows 11/10



Memory

RAM: 8GB
ROM: 128GB
(optional :256GB/512GB)



Rugged Features

Front Panel IP65
Working temperature :
-20 °C to 60 °C
Storage temperature :
-30 °C to 70 °C



Dimension/Weight

10.4 inch: 406*305*125mm;
2.32kg;
12.1 inch: 446*325*125mm;
2.64kg;
15 inch: 503*365*125mm;
3.58kg;
17 inch: 503*405*125mm;
4.34kg;
19 inch: 545*440*125mm;
5.18kg;



Network

4G /WiFi/BT



Display

Type : LCD
10.4 inch: 1024*768; 4:3
12.1 inch: 1024*768; 4:3
15 inch: 1024*768; 4:3
17 inch: 1280*1024; 5:4
19 inch: 1280*1024; 5:4



I/O Interface

USB*4
DC 19V *1 (Support 12-24V)
3.5mm Standard Earphone *1
RJ45 *2,
COM *6,
HDMI *1,
M.2 X1

Panel PC-YPC-WD



Panel PC

- 7gen/10gen Intel i3/i5/i7 processor
- Available in various sizes
- Rich Interface



CPU :

i3-7100U/10110U
i5-7200U/10310U
i7-7500U/10710U



Operating System :

Windows 11/10



Memory :

RAM: 8GB
ROM: 128GB
(optional :256GB/512GB)



Rugged Features :

Front Panel IP65
Working temperature :
-20 °C to 60 °C
Storage temperature :
-30 °C to 70 °C



Dimension/Weight :

13.3 inch: 410*299*130mm;2.68kg;
15.6 inch: 447*309*130mm;3.06kg;
18.5 inch: 519*390*137mm;5kg;
21.5 inch: 602*440*145mm;5.26kg;
23.6 inch: 602*440*145mm; 6.08kg;
27 inch: 728*480*148mm; 7.8kg.



Network :

4G /WiFi/BT



Display :

Type : LCD
13.3 inch: 1920*1080; 16:9
15.6 inch: 1920*1080; 16:9
18.5 inch: 1920*1080; 16:9
21.5 inch: 1920*1080; 16:9
23.6 inch: 1920*1080; 16:9
27 inch: 1920*1080; 16:9



I/O Interface :

USB*4
DC 19V *1 (Support 12-24V)
3.5mm Standard Earphone *1
RJ45 *2,
COM *6,
HDMI *1,
M.2 X1

Panel PC-YPC-AZ



Panel PC

- 7gen/10gen Intel i3/i5/i7 processor
- Available in various sizes
- Rich Interface



CPU:

i3-7100U/10110U
i5-7200U/10310U
i7-7500U/10710U



Operating System :

Windows 11/10



Memory :

RAM: 8GB
ROM: 128GB
(optional :256GB/512GB)



Rugged Features :

Front Panel IP65
Working temperature :
-20 °C to 60 °C
Storage temperature :
-30 °C to 70 °C



Dimension/Weight:

7 inch: 260*195*125mm;
1.16kg;
8 inch: 249*214*110mm;
1.8kg;
10.1 inch: 330*245*125mm;
2.52kg;



Network :

4G /WiFi/BT



Display :

Type : LCD
7 inch: 1024*600; 16:9
8 inch: 1024*768; 4:3
10.1 inch: 1280*800; 16:10

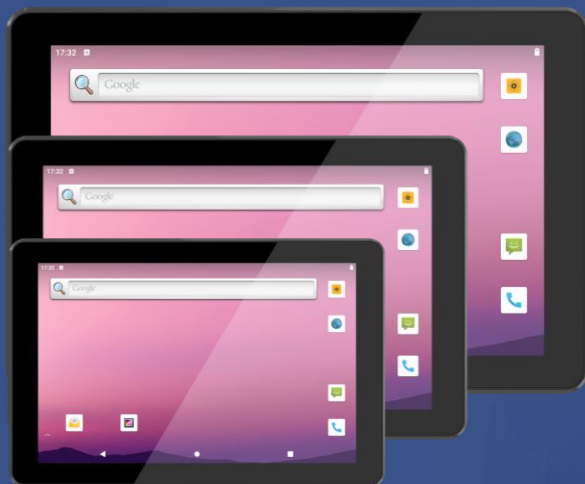


I/O Interface :

USB*4
DC 19V *1 (Support 12-24V)
3.5mm Standard Earphone *1
RJ45 *2,
COM *6,
HDMI *1,
M.2 X1

10.4 inch; 12.1 inch; 13.3 inch; 15
inch;
15.6 inch; 17 inch; 19 inch; 21.5 inch

Panel PC-Android



Panel PC

- RK3562/RK3568/RK3576 processor
- Available in various sizes
- Rich Interface



CPU:
RK3562
RK3568
RK3576



Operating System :
Android
10/11/12



Memory :
RAM: 2GB/4GB
ROM: 16GB
(optional :32GB)



Rugged Features :
Front Panel IP65
Working temperature :
-20 °C to 60 °C
Storage temperature :
-30 °C to 70 °C



Dimension/Weight:
7 inch: 260*195*125mm;
1.16kg;
8 inch: 249*214*110mm;
1.8kg;
10.1 inch: 330*245*125mm;
2.52kg;



Network :
4G /WiFi/BT



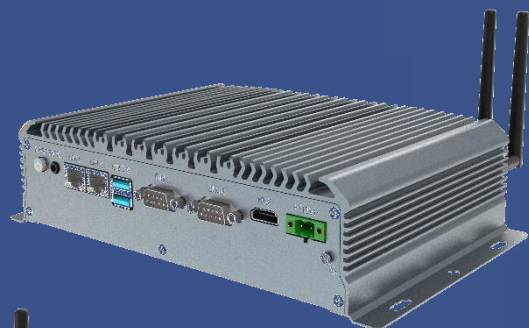
Display :
Type : LCD
7 inch: 1024*600; 16:9
8 inch: 1024*768; 4:3
10.1 inch: 1280*800; 16:10



I/O Interface :
USB*4
DC 19V *1 (Support 12-24V)
3.5mm Standard Earphone *1
RJ45 *2,
COM *6,
HDMI *1,
M.2 X1

10.4 inch; 12.1 inch; 13.3 inch; 15
inch;
15.6 inch; 17 inch; 18.5 inch; 19 inch;
21.5 inch; 23.5 inch; 27 inch

BOX PC-DB02



CPU
i3-7100U/10110U
i5-7200U/10310U
i7-7500U/10710U



Operating System :
Windows/Linux



Memory :
RAM: 8GB onboard
ROM: 128GB
(optional 256GB/512GB)



Network :
WiFi/ BT5.0/ 4G (optional)



Dimension/Weight:
251.4*155*62.65 mm
1.0kg



Rugged Features :
Working temperature :
-10 °C to 60 °C
Storage temperature :
-20 °C to 75 °C
Humidity: 5%-95%RH

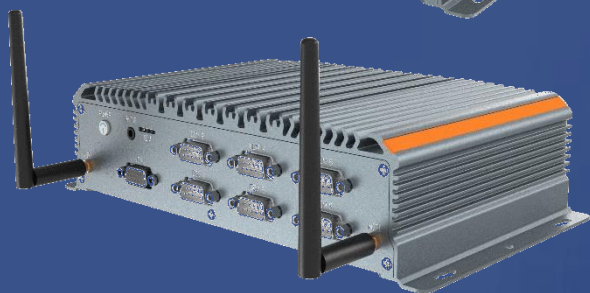


I/O Interface :
USB 3.0*2; USB 2.0*2
DC 12V 2PIN
3.5mm Standard earjack
*1
RJ45*2
COM*6
HDMI*1
M.2*1

BOX PC

- Intel processor
- 24/7 running
- Rich Interface

BOX PC-DB03



BOX PC

- Intel processor
- 24/7 running
- Rich Interface



CPU
i3-7100U/10110U
i5-7200U/10310U
i7-7500U/10710U



Operating System :
Windows/Linux



Memory :
RAM: 8GB onboard
ROM: 128GB
(optional 256GB/512GB)



Network :
WiFi/ BT5.0/ 4G (optional)



Dimension/Weight:
248.33*146.2*62.95 mm
1.0kg



Rugged Features :
Working temperature :
-10 °C to 60 °C
Storage temperature :
-20 °C to 75 °C
Humidity : 5%-95%RH



I/O Interface :
USB 3.0*4; USB 2.0*4
Type-C*1
DC 12V 2PIN
3.5mm Standard earjack
*1
RJ45*4
COM*6
HDMI*2
VGA*1
M.2*1
GPIO*8

BOX PC-DB04



BOX PC

- Intel processor
- 24/7 running
- Rich Interface



CPU
i3-7100U/10110U
i5-7200U/10310U/1235U
i7-7500U/10710U
J6412



Dimension/Weight:
251.40*142.20*62.65 mm
1.0kg



Operating System :
Windows/Linux



Rugged Features :
Working temperature :
-10 °C to 60 °C
Storage temperature :
-20 °C to 75 °C
Humidity : 5%-95%RH



Memory :
RAM: 8GB onboard
ROM: 128GB
(optional 256GB/512GB)

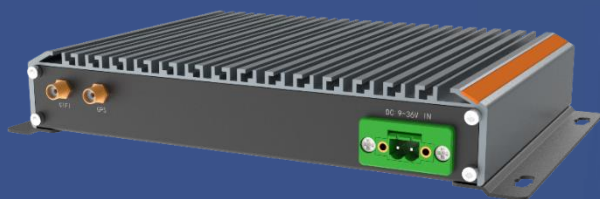


Network :
WiFi/ BT5.0/ 4G (optional)



I/O Interface :
USB 3.0*4; USB 2.0*2
DC 12V 2PIN
3.5mm Standard earjack
*1
RJ45*2
COM*6
HDMI*1
M.2*1
GPIO*8

BOC PC-Android



CPU
RK3568/RK3576



Operating System :
Android/Ubuntu
20.04/Debian11



Memory :
RAM: 2GB/4GB/8GB
ROM: 16GB
(optional 32GB/64GB/
128GB/256GB)



Network :
WiFi/ BT4.1/ 4G/5G (optional)



Dimension/Weight:
220.71*138*35.95 mm
1.0kg



Rugged Features :
Working temperature :
-10 °C to 60 °C
Storage temperature :
-20 °C to 70 °C
Humidity : 5%-95%RH



I/O Interface :
USB 3.0*2; USB 2.0*2 (optional)
DC 12V 2PIN
3.5mm Standard earjack *1
RJ45*2
COM*4
HDMI*1
GPIO*4

BOX PC

- RTK processor
- 24/7 running
- Rich Interface

PANEL PC/ BOC PC USER SCENARIOS



Medicine



Manufacturing



Food Industry



SOP Workstation



Smart Factory



Finance

02



Rugged Handheld




Rugged Handheld-T50C



TK-T50C Handheld

- ARM Architecture octa-core processor
- 5" screen, weighs 260g
- 2D Barcode Scanner


 CPU:
ARM octa-core
processor


 Operating System:
Android 11

 Memory:
RAM: 4GB
ROM: 64GB Emcp

 Display:
Type: IPS
Dimension: 5" 16:9
Resolution: 720*1280
Brightness: 350cd/cm²

 Dimension/
Weight:
157.4*74.6*24.2m
m260g


 Battery:
Built-in Removable Lithium-
ion polymer battery
3.8V/4000mAh


 Network:
4G/ dual-band WIFI/
BT5.1

 GPS:
GPS/GLONASS/beido

 NFC:
Support

 Rugged Features:
IP65
1.2m Composite wood floor
working
Working temperature:
-10 °C to 50 °C
Storage temperature:
-20 °C to 60 °C

 I/O Interface:
TYPE-C 2.0*1 OTG (Data
transmission)
TF card *1, Max: 128GB
SIM card *1
Pogo Pin (Adaptive
docking charger DC69)

 2D Barcode
Scanner:
Support

Rugged Handheld-H60T



6"

TK-H60T

Handheld (GMS)

- ARM Architecture octa-core processor
- 6" screen, only weighs 255g
- NA/NSA Dual-mode 5G



CPU:
ARM octa-core processor



Operating System:
Android 12 (Optional: GMS)



Memory:
RAM: 4GB
ROM: 64GB Emcp



Display:
Type: IPS
Dimension: 5.99" 18:9
Resolution: 720*1440
Brightness: 380cd/cm²



**Dimension/
Weight:**
164*80*14 mm
255g



Battery:
External polymer lithium ion battery 3.8V/4500mAh
11 hours (default volume and brightness to play video)



Network:
5G/ dual-band WIFI/
BT5.1



GPS:
GPS/GLONASS/beido/
Galileo



NFC:
Support



Rugged Features:
IP65
1.2m Composite wood floor working
Working temperature:
-10 °C to 50 °C
Storage temperature:
-20 °C to 60 °C



I/O Interface:
TYPE-C 2.0*1 OTG (Data transmission)
TYPE-C (Audio output)
TF card *1, Max: 128GB
Two nano card
Pogo Pin (Adaptive docking charger DC69)



2D Barcode Scanner:
Support

Rugged Handheld-P1



TK-P1

Handheld

- ARM Architecture octa-core processor
- IP68, Support wet hands and gloves operation
- Fingerprint/Flashlight/NFC/ATEX Zone 2/22



CPU:
ARM octa-core processor



Operating System:
Android 14 (Optional: GMS)



Memory:
RAM: 8GB
ROM: 128GB
Emcp



Display:
Type: TFT
Dimension: 6.56" 20:9
Resolution: 720*1612
Brightness: 670cd/cm²



**Dimension/
Weight:**
170.2*80.7*14mm
311g



Battery:
Built-in Polymer Lithium-
ion Battery,3.85V/5800mAh,
Battery Life:
Approximately 17h24min



Network:
4G/ dual-band WIFI/
BT5.1



GPS:
GPS/GLONASS/beido/
Galileo/AGPS



NFC:
Support



Rugged Features:
IP68
1.2m Composite wood floor
working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface:
Type C *1
(Charging/Data/Earphone/
Reverse charging 6W)
TF Card *1,SIM Card *2,
2 of 3 card slot (Micro
Sim+TF or Micro
Sim+Nano Sim)
Pogo Pin (Charging) *1



Data Collection:
Fingerprint: Power On/Off
& Fingerprint 2-in-1
Flashlight: 1W
NFC:Card reading
distance from 0 to 4 cm,
Frequency: 13.56MHz


Rugged Handheld-T1



TK-T1


Handheld


- ARM Architecture octa-core processor
- IP68, Support wet hands and gloves operation
- NFC/ATEX Zone 2/22

 CPU:
ARM octa-core processor


 Dimension/
Weight:
220.14*135.5*14mm
569g


 NFC:
Support


 Operating System:
Android 14 (Optional: GMS)

 Battery:
Built-in Polymer Lithium-ion Battery, 3.85V/8000mAh,
Battery Life:
Approximately 11h13min


 Rugged Features:
IP68
1.2m Composite wood floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C


 Memory:
RAM: 8GB
ROM: 128GB
Emcp

 Network:
4G/ dual-band WIFI/
BT5.1

 I/O Interface:
Type C *1
(Charging/Data/Earphone/Reverse charging 6W)
TF Card *1
SIM Card *2
2 of 3 card slot (Micro Sim+TF or Micro Sim+Nano Sim)

 Display:
Type: TFT
Dimension: 8.68"
Resolution: 800*1340
Brightness: 400cd/cm²

 GPS:
GPS/beidou/Galileo/AGPS

 Data Collection:
NFC: Card reading distance from 0 to 4 cm,
Frequency: 13.56MHz

Accessories of Rugged Handheld



Hand-strap



Lanyard



3 in 1 Adapter



Docking Charger



Hand Holder



TP Resist film

HANDHELD USER SCENARIOS



Logistics



E-commerce



Retail



Economics



Express Industry



Warehouse

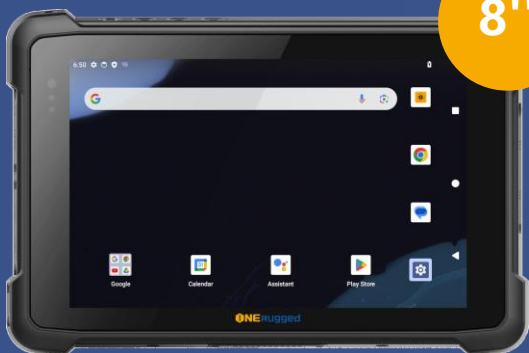
03



Rugged Mobile PC / Vehicle PC



Rugged Mobile PC-T81X



8"

TK-T81X

Rugged Mobile PC

- ARM architecture octa-core CPU
- Android 14 operating system
- High-capacity battery



CPU:
ARM octa-core processor



Operating System
Android 14 GMS



Memory:
RAM 8GB LPDDR4x
ROM 128GB



Display
Type: HD
Dimension: 8-inch 16:10
Resolution: 800*1280
Brightness: 700cd/m²



Dimension /Weight
227.7*150.8*24.7 mm
680g



Battery
Built-in Li-polyment Battery
3.7V/6000mAh



Network:
4G/ dual-band WiFi/
BT5.2



GPS
GPS/ Glonass/ Beidou



Camera
Front 5.0MP
Rear 13.0MP



NFC:
Support



Rugged Features
IP65, MIL-STD-810G
1.22m Composite wood floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface
USB 2.0*1
Type-C*1
TF *1, SIM *1
3.5mm Standard earjack*1
12PIN Pogo Pin*1
DC 5V3A jack *1

Rugged Mobile PC-I87J



8"

TK-I87J

Rugged Mobile PC

- 11th-Gen Intel N5100 processor
- Large capacity removable battery
- New battery-free working mode



CPU:
Celeron N5100
processor



Operating System:
Windows 10



Memory:
RAM 8GB DDR
ROM 128GB EMMC



Display:
Type: FHD
Dimension: 8-inch 16:10
Resolution: 1200*1920
Brightness: 550cd/m²



**Dimension/
Weight:**
236.7*155.7*20mm
910g



Battery:
Removable Li-polymer
Battery
7.6V/5000mAH



Network:
4G /dual-band WiFi /BT5.0



GPS:
GPS /GLONASS



Camera
Front 5.0MP
Rear 8.0MP
(support auto
focus, with
flashlight function)



Rugged Features:
IP65,MIL-STD-810G
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface:
USB 3.0 *1, Type C 3.1 *1
3.5mm Standard earjack
*1
Three in one card holder
(Micro SD card, up to
512GB; Nano SIM *1)
HDMI 2.0a mini *1
12PIN Pogo Pin *1

Rugged Mobile PC-Q89



8"


TK-Q89

Rugged Mobile PC

- ARM/X86 architecture CPU
- Back panel PC + frame TPU material
- 8" HD and HB display screen

 **CPU**
ARM octa-core processor


 **Operating System**
Windows 11

 **Memory**
RAM: 4GB
ROM: 128GB

 **Display**
Type: IPS
Dimension: 8-inch 16:10
Resolution: 1200*1920
Brightness: 550cd/m²


 **Dimension /Weight**
236.7*155.7*20.8mm
818g


 **Battery**
Detachable Li-polyment Battery
7.6V/3200mAh

 **Network :**
4G/ dual-band WiFi/ BT

 **GPS**
GPS/ Glonass/ Beidou

 **NFC:**
Optional

 **Rugged Features**
IP65, MIL-STD-810H
1.22m Composite wood floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C

 **I/O Interface**
TF *1/SIM *1
Or Micro SD card slot*1/Nano-SIM card *2
Two out of three booth
USB 3.0 *1 (Type A)
Or USB 2.0*1 (M80T)
Type-C*1
3.5mm Standard earjack*1
HDMI 2.0a mini*1
(optional)
Pogo Pin*1
DC jack *1

 **2D Barcode Scanner**
optional

Rugged Mobile PC-I10A



TK-I10A

Rugged Mobile PC

- i5-1235U/i7-1255U processor
- 10.1" HD and HB display screen
- Full set of functional interfaces


 **CPU:**
12nd generation Intel
i5-1235U/i7-1255U
processor

 **Operating System:**
Windows 11

 **Memory:**
RAM 16GB DDR4L
ROM 128GB SSD


 **Display:**
Type: LCD
Dimension: 10.1-inch
Resolution: 1200*1920
Brightness: 700cd/m²

 **Dimension/
Weight:**
292.1*192.1*28.9mm
1290g


 **Battery:**
Built-in Battery
7.4V/700mAh(Small
Battery)
7.4V/5000mAh(Big
Battery)


 **Network:**
4G /WiFi 6 /BT5.1

 **GPS:**
Support GPS
Optional:GPS/Beidou/glonass

 **Data Collection:**
NFC: Optional
Fingerprint: Support

 **Rugged Features:**
IP65,MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C

 **I/O Interface:**
USB 3.1 *1
Type C *1
ϕ3.5mm *1
TF/SIM card *1
DC 19V 3.42A 5.5mm jack*1
HDMI 2.1a mini *1
12PIN Pogo Pin *1

 **One of four modules:**
RJ45 standard/DB9 board
USB2.0 /QR Code Scanner

Rugged Mobile PC-T11X



10.1"

TK-T11X

Rugged Mobile PC

- ARM architecture CPU
- 5MP front camera & 13MP rear camera
- Support NFC/2D module



CPU:
ARM octa-core processor



Operating System:
Android 12 GMS



Memory:
RAM 8GB LPDDR4x
ROM 128GB



Display:
Type: IPS
Dimension: 10.1-inch 16:10
Resolution: 800*1280
Brightness: 700cd/m²



Dimension/Weight:
275.7*187.5*24.5mm
1000g



Battery:
Built-in Li-polyment Battery
3.7V/8000mAh



Network:
4G /dual-band WiFi /BT5.2



GPS:
GPS+GLONASS+Beidou



Camera
Front 5.0MP
Rear 13.0MP



Data Collection:
NFC: Support
2D: Optional



Rugged Features:
IP65,MIL-STD-810G
1.22m Composite wood floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface:
USB 2.0*1
Type C *1
3.5mm Standard earjack*1
TF *1
SIM card*1
DC 5V/3A jack *1
12PIN Pogo Pin *1

Rugged Mobile PC-I17J



10.1"

TK-I17J

Rugged Mobile PC

- ARM architecture CPU
- 5MP front camera & 8MP rear camera
- Module with three options



CPU:
Celeron N5100
processor



Operating System:
Windows 11/10



Memory:
RAM 8GB DDR
ROM 128GB Emmc



Display:
Type: FHD
Dimension: 10.1-inch 16:10
Resolution: 1200*1920
Brightness: 400cd/m²



**Dimension/
Weight:**
274.9*188.7*23.1 mm
1140g



Battery:
Removable Li-polyment
Battery
7.6V/5000mAH



Network:
4G /dual-band WiFi /BT5.0



GPS:
GPS /GLONASS



Camera
Front 5.0MP
Rear 8.0MP
(support auto
focus, with
flashlight function)



Rugged Features:
IP65,MIL-STD-810G
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface:
USB 3.0*1
Type C 3.1*1
3.5mm Standard earjack*1
Three in one card holder
(Micro SD card, up to
512GB; Nano SIM *1)
HDMI 2.0a mini *1
12PIN Pogo Pin *1



**One out of Three
Interface:**
RJ45 standard/DB9 board
USB2.0

Rugged Mobile PC-T195



10.1"

TK-T195

Rugged Mobile PC

- ARM architecture CPU
- 10.1" HD display screen
- High-capacity battery



CPU:
ARM octa-core processor



Operating System:
Android 11 GMS



Memory:
RAM 8GB LPDDR4x
ROM 128GB



Display:
Type: IPS
Dimension: 10.1-inch 16:10
Resolution: 1200*1920
Brightness: 400cd/m²



Dimension/Weight:
263*177*10.5 mm
650g



Battery:
Built-in Li-polyment Battery
3.8V/9500mAh



Network:
5G /dual-band WiFi /BT5.0



GPS:
Default GPS /GLONASS /Galileo /Beidou(Alternative single Beidou)



Camera
Front 5.0MP
Rear 13.0MP
(support auto focus, single flashlight)



Data Collection:
NFC: Support
2D: Optional



Rugged Features:
IP65
1 m Composite wood floor working
Working temperature:
-10 °C to 50 °C
Storage temperature:
-20 °C to 60 °C



I/O Interface:
Type C *1
TF card*1,Max:512GB
SIM card*1
Two out of three card holders (Micro Sim+TF or Micro Sim+Nano Sim)
12PIN Pogo Pin *1

Rugged Mobile PC-I20A/I20J



12.2"

TK-I20A/I20J Rugged Mobile PC

- Core i5/i7 processor
- 10.1" HD and high brightness display screen
- Large and small batteries are hot-swappable



CPU:
12nd generation Intel
i5-1235U/i7-1255U
processor
Or JASPER LAKE
N5105 processor



Operating System:
Windows 11



Memory:
RAM 16/8GB DDR4L
ROM 128GB SSD



Display:
Type: FHD
Dimension: 12.2-inch
Resolution: 1200*1920
Brightness: 650cd/m²



**Dimension/
Weight:**
340.15*231.23*26.19mm
1500g



Battery:
Built-in Battery
7.4V/860mAh (Small Battery)
Removable polymer lithium-ion
battery, hot-swappable
7.4V/6300mAh (Big Battery)



Network:
5G (optional)/WiFi 6
/BT5.1
Or 5G
(optional)/dual-
band WiFi /BT5.0



GPS:
Support GPS/Beidou/
Glonass(M20A)
Support GPS(M20J)



Data Collection:
NFC: Optional
Fingerprint: Support



Rugged Features
IP65, MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface(Optional 1):
USB 3.1 *1
Type C *1
3.5mm earjack*1
TF/SIM card *1
DC 19V3.42A 5.5mm
jack*1
HDMI 2.1a mini *1
12PIN Pogo Pin *1
Choose 1 from 4
RJ45 (standard)/ DB9
USB2.0/ QR Code Scanner



I/O Interface(optional 2):
USB3.0 *1
Type C *1
3.5mm Standard earjack*1
HDMI 2.1a mini *1
SIM card *1 / TF card *1
DC 19V3.42A 5.5mm jack*1
12PIN Pogo Pin*1
Choose 1 from 4
RJ45 (standard)*1/RS232*1
USB2.0 *1/QR Code Scanner

Vehicle PC-V80J/V80T




8"


TK-V80J/V80T

Vehicle PC

- ARM/X86 architecture CPU
- 8" HD and high brightness display screen
- Support battery-free solution

 **CPU**
Intel JASPER LAKE
N5100 processor
Or ARM octa-core
processor


 **OS**
Windows 10
Android 12 ,optional
GMS (V80T)


 **Memory**
RAM 4/8GB LPDDR3
ROM 64/128GB EMMC


 **Display**
Type: LCD
Dimension: 8-inch 16:10
Resolution: 800*1280 IPS
Brightness: 700cd/m² (Later
upgrade to 1000cd/m²)


 **Dimension/
Weight**
218.1*154.5*23.0 mm
631g (V80J)
611g (V80T)

 **Battery:**
(optional)
1000mAh/7.4V
2000mAh/3.7V
Built in RTC battery

 **Network**
Optional:4G/dual-
band WiFi /BT5.0
Optional:4G/dual-
band WiFi /BT5.2
(V80T)

 **GPS**
GPS+GLONASS
(optional1)
GPS+Beidou+GLONASS
(optional2)

 **I/O Interface(optional1)**
Nano-SIM *1 (optional)
USB 3.0 *1
DC input (11-24V)
Optional:
Gigabit network port,
RS232 *1+RS232/RS485
*1
USB 2.0 *2+USB 2.0
(default) /CAN*1

 **I/O Interface(optional2)**
MICRO-SIM*1
USB 2.0*1
DC input (12V)
Optional:
100M network port
RS232*1+RS232/RS485
(standard) *1
USB 2.0 *1+USB
2.0(default)/CAN*1+CVBS*
1

 **Rugged Features**
IP65
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C
±8kV contact discharge,
±15kV air discharge
Humidity: 95% Non-
Condensing

 **NFC**
Optional

Vehicle PC-V10J/V10T



TK-V10J/V10T
Vehicle PC

- ARM/X86 architecture CPU
- Multiple extensive aviation plug interfaces
- VESA and RAM two installation methods



CPU

Intel JASPER LAKE
N5100 processor
(optional1)
ARM octa-core
processor
(optional2)



Dimension/ Weight

264.5*184.1*23.0 mm
834g (V10J)
824g (V10T)



I/O Interface(V10J):

SIM *1
USB 3.0*1
Optional:
Gigabit network port,
RS232 *1+RS232/RS485 *1,
USB 2.0 *2 + USB 2.0
(default) /CAN*1



OS

Windows 11 (V10J)
Android 12 ,optional
GMS (V10T)



Battery

(optional)
1000mAh/7.4V(V10J)
2000mAh/3.7V (V10T)
Built in RTC battery



Memory

RAM 8/4GB LPDDR3
ROM 128/64GB EMMC



Network

Optional:4G/dual-
band WiFi /BT5.0
(V10J)
Optional:4G/dual-
band WiFi /BT5.2
(V10T)



Display

Type: HD
Dimension: 10.1-inch 16:10
Resolution: 800*1280
Brightness: 700 nits(Later
upgrade to 1000cd/m²)



GPS

GPS, GLONASS (V10J)
GPS+Beidou+GLONASS
(V10T)



I/O Interface(V10T)

SIM *1
USB 2.0 *1
DC input (12V)
Optional:
100M network port,
RS232 *1+RS232/RS485
(standard) *1
USB 2.0 *1+USB 2.0
(default)/ CAN*1+CVBS*1



Rugged Features

IP65
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C
±8kV contact discharge,
±15kV air discharge
Humidity: 95% Non-
Condensing



NFC

Optional

Vehicle PC-V12R



10"

TK-V12R

Vehicle PC

- RK3568J quad-core processor
- Multiple functional modules for selection
- IP67 high protection level



CPU
RK3568J quad-core processor



OS
Android 12+Linux Dual-System



Memory
RAM 4/8GB(optional)
ROM 64/128GB/256GB (optional)



Display
Type: HD
Dimension: 10.1-inch 16:9
Resolution: 1024*600
Brightness: 750 nits



Dimension/Weight
282*181*31mm
1150g (full set)



Network
Optional:4G/dual-band WiFi /BT5.0



GPS
GPS+Beidou+GLONASS



Data Radio
Optional
Frequency range: 410-470MHz



Functional Modules
Optional:
CAN (Supports up to 4 CAN channels)
RTK High Precision Locating
Data Radio(Frequency range: 410-470MHz)
AHD Multi-Channel Cameras



I/O Interface
MICRO-SIM x 1
USB 2.0*1
Optional:
MICRO-SDx 1
Video Input (AHD*4 M12 4-Pin Connector*4)
Antenna Interfaces (TNC*2、SMA*2)



Rugged Features
IP67
Working temperature: -30 °C to 70 °C
Storage temperature: -30 °C to 85 °C
±8kV contact discharge, ±15kV air discharge
Humidity: 95% Non-Condensing

Accessories of Rugged Mobile PC



Adapter



Leather
Cover



Rotational cover



Leather keyboard



Detachable Battery



Stylus



Carry handle



Hand-strap



Car Charge



Docking Charger



Vehicle mount



Quad charging

Accessories of Vehicle PC



Rod antenna



12pin to 2-way USB/1-way CAN



GPS vehicle mushroom antenna



GPS rod antenna



WIFI rod antenna



Function adapter cable-12pin to 12 loose wires



Functional adapter cable-12pin to full function RS232 power line + serial communication 232



Functional adapter cable-12pin to RS232+485



Function adapter cable-2PIN to full function RS232 power line + serial communication 485



Wide voltage module



Cigarette lighter adapter



Battery



Adapter



8 pin power lines to 4 loose wires



Adapter



PPC hook component



Antenna



Power adapter cable

MOBILE PC/VEHICLE PC USER SCENARIOS



Vehicle Inspection



Inspection



Smart Factory



Forklift



Communication



Animal Husbandry

PART
04

04



Rugged Notebook



Rugged Notebook-X14A/X14M



TK-X14A/X14M Rugged Notebook

- Core i5/i7 processor
- 14" HD and high brightness display screen
- Optional 5G communication


 **CPU**
Intel i5-1135G7
processor i7-
1165G7 processor
(optional)

 **Operating System**
Window 11/10

 **Memory**
RAM:16GB(Optional
:32GB)
SSD:256GB(Optional
: 512GB/1TB)

 **Display**
Dimension: 14-inch, 16:9
Resolution: 1920*1080
Brightness: 700cd/m²
Optional: 1000cd/m²


 **Dimension/
Weight**
363.2*287.4*42.1mm
2.85kg

 **Battery**
Dual-battery, the large one
is hot-swappable
7.4V/1750mAh (small
battery)
7.4V/6300mAh (large
battery)

 **Network**
5G /WiFi 6 /BT5.1

 **GPS**
GPS

 **Camera**
Front 2.0MP

 **Data Collection**
NFC: Optional
Fingerprint: Built-in,
×1 SPI
fingerprint(boot
login)

 **Rugged Features**
IP65,MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C

 **I/O Interface**
USB 2.0 *1,USB 3.0 *3
3.5mm Standard
earjack*1
HDMI *1
SD card *1,SIM card *1
DC 19V 3.42A Power
connector *1, DB9
(RS232)*1, RJ45 *2 ,
5PIN Pogo Pin *1
Anti theft lock hole *1
Heat dissipation air
outlet (right) *1

Rugged Notebook-X15A/X15M



15.6"

TK-X15A/X15M Rugged Notebook

- Core i5/i7 processor
- Hot-swappable dual-battery
- Full-size and full-function keyboard


 **CPU**
Intel i5-1135G7
processor i7-1165G7
processor (optional
)

 **Operating System**
Window 11/10

 **Memory**
RAM:16GB(Optional
:32GB)
SSD:256GB(Optional
: 512GB/1TB)

 **Display**
Dimension: 15.6-inch 16:9
Resolution: 1920*1080
Brightness: 700cd/m²

 **Dimension/
Weight**
407*305.8*45.5mm
3.3kg

 **Battery**
Dual-battery, the large one is
hot-swappable
7.4V/1750mAh (small battery)
7.4V/6300mAh (large battery)


 **Network**
5G /WiFi 6 /BT5.1

 **GPS**
GPS

 **Camera**
Front 2.0MP

 **Data Collection**
NFC: Optional
Fingerprint: Built-in,
×1 SPI fingerprint(boot
login)

 **Rugged Features**
IP65,MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C

 **I/O Interface**
USB 2.0 *1,USB 3.0 *3
3.5mm Standard earjack*1
HDMI *1, SD card *1,
SIM card*1
DC 19V 3.42A Power
connector *1
DB9 (RS232) *1, RJ45 *2
5PIN Pogo Pin *1
Anti theft lock hole *1
Heat dissipation air outlet
(right) *1

Rugged Notebook-I22J



12.2"

TK-I22J Rugged Notebook

- Intel JASPER LAKE N5100 processor
- Hot-swappable dual-battery
- Removable keyboard



CPU
Intel JASPER LAKE
N5100 processor



Operating System
Window 11



Memory
RAM:8GB
(Optional:16GB)
SSD:128GB(Optional
: 512GB)



Display
Dimension: 12.2-inch
16:10
Resolution: 1920*1200
Brightness: 650cd/m²



**Dimension/
Weight**
319.6*216*24.3 mm
1.5kg



Battery
Dual-battery, the large one is
hot-swappable
7.4V/1000mAh (small battery)
7.4V/6300mAh (large battery)



Network
4G /WiFi 6 /BT5.1
5G:Optional



GPS
GPS



Camera
Front 5.0MP (MIPI)
Rear 8.0MP (MIPI)



Data Collection
NFC: Optional
1D/2D:Optional



Rugged Features
IP65,MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C



I/O Interface
USB 2.0 *1,USB 3.0 *2
3.5mm Standard earjack*1
HDMI *1,SIM card*1,TF
card*1
DC 19V 3.42A Power
connector *1
DB9 (RS232) *1, DB9
(RS485)*1,RJ45 *1
12PIN Pogo Pin *1

Rugged Notebook-Q225M



12.2"

TK-Q225M Rugged Notebook

- SM6350 2.0GHZ processor
- Removable Li-polyment Battery
- Removable keyboard


 **CPU**
SM6350 2.0GHZ
processor

 **Operating System**
Andriod 11

 **Memory**
RAM:4GB(Optional:
8GB)
SSD:64GB(Optional:
128GB)


 **Display**
Dimension: 12.2-inch
16:10
Resolution: 1920*1200
Brightness: 650cd/m²


 **Dimension/
Weight**
319.6*216*24.3 mm
1.5kg


 **Battery**
Removable Li-polyment
Battery
3.7V/12600mAh
7hours (50% volume sounds,
50% screen brightness, 1080P
HD video display by default)

 **Network**
5G /WiFi 6 /BT5.1

 **GPS**
GPS

 **Camera**
Front 5.0MP
Rear 13.0MP

 **Data Collection**
NFC: Support
2D: Optional

 **Rugged Features**
IP65,MIL-STD-810H
1.22m Composite wood
floor working
Working temperature:
-20 °C to 60 °C
Storage temperature:
-30 °C to 70 °C

 **I/O Interface**
USB 2.0 *2,USB 3.0 *1
3.5mm Standard earjack*1
HDMI *1, TF card *1,SIM
card*1, Type C *1
DC 5V 4A ϕ3.5mm Power
connector *1
DB9 (RS232) *1, DB9
(RS485)*1,RJ45 *1
12PIN Pogo Pin *1

Accessories of Rugged Laptop



Adapter



Detachable Battery

NOTEBOOK USER SCENARIOS



Mapping



Shipping



Oil



Chemistry



Electricity



Fire fighting



SUZHOU THINCKIN
YOUR ONE-STOP SUPPLIER OF RUGGED COMPUTING
SOLUTION

THANKS FOR WATCHING