Rugged waterproof industrial data collector Speedata KT55 Standard

Category:	UMPC - Ruggedized
Manufacturer:	Speedata
Operating System:	Android 5.1
Display:	5.5" AMOLED | 1920 x 1080 (FHD)
Brightness:	~300Nit
Processor:	ARM Cortex A-53 (8x 1.3GHz)
Memory:	2GB DDR3
Hard Drive:	-----
Flash Memory:	16GB
Touch screen:	Capacitive
Durability:	IP65 | 1.5m Drops
Drop:	1.5m
Shock:	-----
Vibration:	-----
Temperature:	Operating temperature: -20°C -- 50°CStorage temperature: -40°C -- 60°C
Humidity:	5% -- 95%
1D barcode scanner (reader):	No (available in other configuration)
2D barcode scanner (reader):	No (available in other configuration)
RFID scanner (reader):	NFC 13.56MHz ISO14443A, ISO15693

Other:	Laser distance meter + temperature/humidity sensor
Battery:	3.7V/6000mAh Lithium
Working time on battery:	8h
Fast battery replacement ability:	No
HotSwap battery:	No
LAN:	No
WLAN:	IEEE 802.11 a/b/g/n (Dual band)
Bluetooth:	Bluetooth 4.0
WAN:	4G: FDD B1B3B7 / TDD B38B39B40 / WCDMA B1B2B5B8 EVDO BC0 / GSM B2B3B5B8
GPS:	Standard + DGPS with accuracy up to 5m.
Camera:	Rear: 13Mpx | Front: 5Mpx
In/Out:	Micro SD2x SIMMicro USB (OTG)Audio Jack
Optional accessories:	-----
Docking station connector:	No
VESA standard – holders and mounts support:	No
COM port:	No
Magnetic card reader (MSR):	No
Microchip card reader:	No
Contrast:	-----
Graphics card:	-----
Chipset:	-----
BIOS:	-----
Casing material:	-----
Flash Card Reader:	micro SD (max. 128GB)
CD/DVD:	-----
Audio:	Built-in microphone and speaker
Keyboard:	Onscreen

Additional Navigation Devices :	-----
Color:	Black
Swivel Hinge:	-----
VGA out:	No
TV Out:	-----
TV Tuner:	Nie
Security:	-----
Waterproof:	IPX5
Sand and dust:	IP6X
Size:	170 x 79 x 13mm - 400g
Fanless casing:	Yes

Product from the Archive - production finished

SPEEDATA KT55

SPECIFICATION

RESISTANCE

DATA COLLECTING

WIRELESS COMMUNICATION

APPLICATION

AVAILABLE VERSIONS AND ACCESSORIES

Speedata KT55 is a modern, waterproof industrial data collector designed for extreme applications. It has a specially designed, reinforced construction that meets the requirements of IP65, which confirms the protection of the device against dust and water.

SPECIFICATION

Speedata KT55	
Processor	ARM Cortex A-53 (8x 1.3GHz)
Graphics	N/A
Operating system	Android 5.1
RAM	2GB DDR3
ROM	16GB
Display	5.5" AMOLED, 1920 x 1080 (FHD)	0.91" OLED
Touch screen	Capacitive
Battery	3.7V/6000mAh
Camera	Rear: 13Mpx	Front: 5Mpx

Speedata KT55

Protection	IP65 | 1.5 Drops
Communication	3G/4G | Bluetooth | NFC | Wi-Fi | GPS/AGPS | DGPS *
Connectors	Micro USB (OTG) | Audio Jack
Memory card	Micro SD (max. 128GB)
SIM card	Dual SIM - 1x Mini SIM, 1x Micro SIM
RFID Reader	No
1D Scanner *	Honeywell N6603
2D Scanner *	Honeywell N6603
Printer	Thermal printer

*

Optional equipment, available on specific versions only.

> ⓘ Detailed specification of the device is available in the tab "Technical data".

DUAL SCREEN

Apart from the main 5.5 "screen, the KT55 also features a second 0.91 inch OLED screen in the upper right corner of the device, allowing you to freely program it to display various information such as time (default), charging status etc.

Dustproof industrial data collector Speedata KT55 was equipped with high performance, energy-efficient ARM Cortex A-53. Inside, there are eight cores that allow for more efficient processing of multiple tasks simultaneously. Shared caching, which uses a multi-level hierarchy, is dynamically allocated to each processor core according to the load. This reduces the average access time to main memory. Enhanced graphics card technology lets you enjoy full HD video and movies. Low power consumption guarantees long battery life.

Ergonomic design

Speedata KT55 industrial data collector is designed for resistance and convenience. The sleek and rugged 12mm thick design and stylish case will make the data collector very well suited for industrial use and more. The unique size has been carefully thought out to make the device more comfortable and ergonomic. The non-slip casing makes it safe and secure to hold it in your hand, and the rubber corners further protect your device

against possible damage as a result of falls.

Dimensions	170 x 79 x 12mm
Net weight	400g

Capacitive screen

AMOLED DISPLAY

Speedata KT55 has a modern AMOLED display. It offers better image quality from standard LEDs or OLED displays, and also consumes much less energy with longer lifetime.

Thanks to the AMOLED backlight, the collector screen is also well legible in the sun.

12MM THICKNESS COVER

With a thickness of just 12mm, the KT55 is currently the thinnest device available on the market for data collectors.

With the capacitive screen, the reaction of the device is not to directly press the screen, but to change the electrostatic field at the point where the device is touched. This allows for much more precise handling and gentle brushes on the screen. In addition, we can use multitouch technology, the ability to control our tablet or the collector with a few fingers at once.

RESISTANCE

ARMORED FRAME

KT55 has a specially designed, armored Unibody design. It is made of magnesium, special aluminum magnesium alloy, which is also used in the aviation industry. This makes the case extremely durable and resistant to any physical damage, both on the outside and inside.

IP65 Protection

The IP standard defines the degree of protection provided by the enclosure of an electrical device against such factors as: access to dangerous parts inside the enclosure, penetration of foreign matter, splashing or immersion.

IP6X	No ingress of dust, complete protection against contact. A vacuum must be applied. Test duration of up to 8 ho
IPX5	Water projected by a nozzle (6.3 mm) against enclosure from any direction shall have no harmful

Extreme temperatures

Speedata KT55 is suitable for continuous operation in both low and high temperatures in the range of -20 ° C to 50 ° C. When the device is off, it can handle temperatures ranging from -40°C do 60°C. In addition, the rugged industrial data collector performs well

in rooms with increased humidity, ensuring proper operation even with 95% relative humidity.

Working Temp.	-20°C do 50°C
Storage Temp.	-40°C do 60°C
Humidity	5% to 95%

1.5m drop resistance

Specially designed construction gives the machine a chance of accidental falls from up to 1.5 meters in operating mode, even on hard surfaces.

RUBBER PROTECTION

The construction of the device is coated with a layer of the highest quality rubber, which further protects the collector against possible falls, abrasions and other mechanical damage.

Thermal Printer (option)

Speedata KT55 with built-in thermal printer is designed to work in the field, where it can be used to print receipts and receipts. A small number of moving parts and a robust design ensure trouble-free operation even in the harshest conditions. The use of thermal printing technology eliminates the need for expensive ink or toner. No matter how many pages will be printed pages - ink in the printer does not run out.

Print method	Thermal
Paper width	57mm
Print width	48mm
Resolution	8dots/mm
Printing speed	40-60mm/sec
Font size	8x16dots / 12x24dots
Storage temp.	-20 do 60
Work temp.	0 do 50
Work humidity	10% do 80%

EXTENSIONS

The external modules allow easy and convenien[t] expansion of the data collector functionality with the printer, temperature and humidity meter, differential GPS and laser distance meter. Magnetic clamping allows you to easily or unplug the extension at any time without additional tools.

NFC/RFID

Short-range communication, known as NFC, is a radio communication standard that allows for wireless data exchange at a distance of a few centimeters. This technology is a simple extension of the proximity card standard that combines smart card interface and reader in one device. NFC devices can communicate with existing equipment in the standard ISO / IEC 14443 (cards and readers) as well as with other NFC devices, and thus are compatible with existing and already used public transport and payment infrastructures such as MIFARE.

Standard	NFC 13.56MHz
Protocols	ISO 14443A/B, ISO15693

Read distance	3cm

Barcode scanner (option)

Barcode Reader allows you to read, decode and transfer stored data in barcode to your computer. Thanks to dynamic scanning method and the large range of reading, data collector is capable to carefully collecting data, which helps to increase the rate and efficiency of work. Simplified installation procedure, convenient and intuitive design allow to start scanner work very easy and quickly.

1D/2D Scanner (option)	Honeywell N6603

Laser distance meter (option)

The   professional laser distance meter allows for quick measurement of distance at the same time offering increased accuracy and precision compared to conventional measuring instruments. Modern laser technology ensures accurate measurement at up to 100m.

WIRELESS COMMUNICATION

WIRELESS CHARGING

With the KT55 you can install a wireless battery charging module, an innovative solution in the industrial equipment segment to increase the safety and comfort of charging the collector. To complete the battery, simply place the device on a special charging cradle.

4G Module

4G technology is based on a radio network with fast transmission and the rare occurrence of downtime or transfer errors. The main distinguishing feature of the 4G from its predecessor (3G) is the speed of transfer between devices. The fourth generation network offers 100 Mb / s of mobile internet speed and 25 Mb / s of packet transfer. Technology enables users, including: extremely fast radio networks, Internet access, personalized telephony, and access to modern media and games services.

4G Module (option)	FDD B1B3B7 / TDD B38B39B40 / WCDMA B1B2B5B8 EVDO BC0 / GSM B2B3B5B8

GPS navigation

Industrial data collector Speedata KT55 is equipped with a professional GPS module, combining low power consumption with high accuracy. Navigation is fast and smooth, allowing you to easily and easily reach any destination.

Type	GPS/AGPS	DGPS (opcja)
Supported systems	GPS/QZSS/SBAS(WAAS/MSAS/EGNOS/GAGAN)

Bluetooth 4.0

Bluetooth enables wireless short-range communication between various electronic devices, such as the keyboard, computer, laptop, palmtop, mobile phone and many others. In the fourth version of this standard, energy consumption was reduced considerably, at the expense of lower transfer costs, and real operating coverage increased.

Wi-Fi network

Dual-band Wi-Fi provides fast network access wherever you can connect to secured or open Wi-Fi networks. This is a convenient solution for people who have a work or residence router and a wireless network that can be used at no extra cost. The shock-resistant industrial handheld terminal, the Speedata KT55, is equipped with the latest 802.11n technology, which allows file transfer speeds up to 150 Mb/s.

Standards	802.11(a/b/g/n)
Frequencies	2.4GHz + 5GHz (Dual-Band)

APPLICATION

Thanks to their size and light weight, tablet and smartphone data collectors are a useful tool for sales representatives.. Today's applications running under the collector system enable even entering the data collector's contractor database, which allows us to later search for it quickly by name or NIP number. We can do the same with our commodity base, which can work in parallel with the database of contractors. Additional use of collectors in the trade, such as sending orders or invoices directly to the company through the GSM network or Wi-Fi.

Industry and Construction

Industrial tablets and data collectors are characterized by high resistance to adverse working conditions. Tightness, dust and water resistance of enclosures, certified by IP (dust and water resistance standards) and often MIL-STD military standard, can withstand even the harshest conditions in industrial infrastructure or on the construction site. With appropriate applications, collectors can be used for control and control of various industrial processes, as well as for data collection and analysis.

Warehouse

An industrial data sheet is the ideal solution for quick stocktaking. In addition, depending on the software used, it streamlines the process of entering and delivering goods into the warehouse, enables price control and dispensing, helps to collect and order orders, and identifies customers and servicing the rental. The advantages of using data collectors are undoubtedly: time savings, customer satisfaction thanks to the correct price and speed of operation.

AVAILABLE VERSIONS AND ACCESSORIES

The   industry-leading

Speedata KT55 data collector is available in several versions to suit different

needs.

By clicking on the hardware configuration number you will be redirected to the product with the parameters given in the table below. In addition, on request, you can create a configuration not currently available in the offer.

	Printer	1D/2D Scanner	DGPS/Temp./Distan.	Wirelress char.
v 1	—	—	—	—
v 2		—	—	—
v 3	—	—		—
v 4	—		—	—
v 5	—	—	—	
v 6		—		—
v 7			—	—
v 8		—	—	
v 9	—			—
v 10	—	—		
v 11	—		—	
v 12				—
v 13		—		
v 14				

> ⓘ More pictures available in the "Gallery" tab.