UHF RFID Reader

Vanch Brand Model	Picture	Application industry	Specification
NEW! VF-847 UHF RFID super reader (ARM9+Linux)		1. Adopt impinj indy r2000 chip and ARM9 processor +Linux platform, realize high-speed reading and fast data operation; 2. support tags with standards EPC global UHF Class 1 Gen 2 / ISO 18000-6C/ ISO18000-6B; 3. work frequency 860-868MHZ, 902-928MHZ(depends on different coutries); 4. support RS232、RS485、Ethernet、Wiegand communication interfaces; 5. Support SSH、FTP、Telnet、HTTP network communication modes, and embedded with WebServer to realize basic self-testing function; 5. support 1、2、4 TNC antenna ports; 6. output power 32dbm adjustable, support AUTO mode、COMMAND mode、Trigger mode; 7. buzzer and LED indicator light; support file sharing、ftp firmware online upgrade;	**Performance Index** OS: LINUX2.6 CPU: ATSAM9G20 Memory: SDRAM 64M, NandFlash 128M Frequency: 860Mhz – 960Mhz（depends on countries' frequency） Support countries: US, Canada and other regions following U.S. FCC Europe and other regions following ETSI EN 302 208 with & without LBT regulations Mainland China Japan Korea Malaysia Taiwan FM mode: FHSS or fixed frequency, set by software RF output: 20-30dBm; 50Ω load Tag inventory peak speed: > 500 tag/s Tag buffer : 800 tags @ 96 bit EPC Tag RSSI: support Antenna connection protection: support Environment temperature monitor: support Antenna quantity: 4 TNC antenna ports Communication interface: 10M/100M self-adaption Ethernet、RS232、RS485、Wiegand26/34 Communication rate: Serial port 9600～115200bps, RJ45 10Mbps

Vanch Brand Model	Picture	Application industry	Specification
		8. support multi-group I/O interface, easy to application integration； 9. high industrial structure design, supply to harsh environment； 10. apply to warehouse logistic supply chain, fixed assets management, vehicle management, manufacturing and etc.	Reliable firmware upgrade: Extensible upgrade mechanism GPIO: 2 input、1 output Application software interface: Provide API SDK and VC,VB,JAVA application routine **Tag operation performance** Reading distance: With 8dbi antenna, 3-25m（tag dependent） Air interface protocol：EPCglobal UHF Class 1 Gen 2 / ISO 18000-6C/ ISO18000-6B Maximum receive sensitivity: -82 dBm; maximum return loss: 10 Dbm **Machinery electric performance** Dimension: 200(L)*200(W)*35(H)mm Material: Die-casting aluminum Power supply: Equipped with power converter, 220V AC input，＋12V/3A DC output RF output interface: TNC Net Weight: ＜2KG Humidity: 5% to 95%, non-condensing Protection grade: IEC IP51 Operating temperature: -20 ºC to +60 ºC Storage temperature: -40°C to 80°C

Vanch Brand Model	Picture	Application industry	Specification
VF-747 UHF RFID Fixed reader		●Shell adopt high strength die-casting aluminum, highlighting the product quality ●Adopt high-performance Impinj UHF reader chip IndyR2000,the best Intensive reader mode、the maximum read speed and optimum read ranges. ●Application: logistics supply chain、fixed asset management and library and archive management etc.	Frequency range: 860-868MHZ，902-928MHZ（can be customized） Frequency modulation: FHSS or fixed-frequency, can be set by software RF output: +10.0 to +30.5 dBm；50 ohm load. The number of antennas: 1 SMA antenna connector; 2 SMA antenna connector; 4 SMA antenna connectors for selections Communication interface: 10M/100MAdaptive Ethernet、RS232、RS485、Wiegand26/34 interface Communication rate: Serial rate 9600～115200bps，RJ45 is 10Mbps Secure firmware upgrade: The upgrade mechanism can be extended input / output (GPIO): 2 inputs, 1 output Application software: Supply API SDK and VC and VB, Java application routines Reading distance: 8dbi Antenna configuration, typical read range: 3 to 25 m (depends on tag) Protocol: EPC global UHF Class 1 Gen 2 / ISO 18000-6C/ ISO18000-6B Maximum receiver sensitivity: -82 dBm; Maximum return loss: 10 DBm Dimension: 200 (L) * 200 (W) * 35 (H) mm Power: With 220V AC input, the output of +12 V/3A DC power converter Weight: ＜2KG Humidity: 5% to 95%, Non-condensing IP rating: IEC IP51 Operating Temp.: -20 ºC to +60 ºC

Vanch Brand Model	Picture	Application industry	Specification
			Storage Temp.: -40°C to 80°C
VF-447E UHF RFID Fixed reader		●The high-performance RF discrete components design framework. ●Combined with efficient signal processing algorithms.	Frequency range：860-868MHZ，902-928MHZ（can be Customized） Frequency modulation：FHSS or fixed-frequency, can be set by software RF output：30 dBm；50 ohm load The number of antennas：1 SMA antenna connector; 2 SMA antenna connector; 4 SMA antenna connectors for selections Communication interface：10M/100MAdaptive Ethernet、RS232、RS485、Wiegand26/34 interface Communication rate：Serial rate 9600～115200bps，RJ45 is 10Mbps Secured firmware upgrade：The upgrade mechanism can be extended (GPIO) Input / Output：2 inputs, 1 output Application software：Supply API SDK and VC and VB, Java application routines Reading distance：8dbi antenna typical reading distance 3~10 meters（depends on tag） Writing distance：0-5 meters Protocol：EPC global UHF Class 1 Gen 2 / ISO 18000-6C Dimension：180 (L) * 168 (W) * 41 (H) mm Power：With 220V AC input, the output of +12 V/3A DC power converter Weight：＜1KG Humidity：5% to 95%, Non-condensing

Vanch Brand Model	Picture	Application industry	Specification
			IP rating：IEC IP52 Working temp.：-20 °C to +60 °C Storage temp.： -40° C to 80° C
VF-647 UHF RFID Fixed reader		●With high performance Impinj UHF reader chip IndyR2000,achieve best multi-tags read effect, optimal read speed and read range ●Apply for: supply chain, fixed assets management, manufacturing and etc.	Tag air interfaces: EPC Gen 2 / ISO 18000-6C / ISO18000-6B Frequency ranges：902～928MHz（customize for your requirement） Work style: For FHSS or fixed frequency Antenna port: 4SMA (female) antenna port RF power control: +10.0 to +32.5 dBm 8dbi antenna, Read distance3~20M（Tags dependent） Max receiving sensitivity: -82 dBm; Maximum return loss: 10 dBm Communication interface：LAN、RS232、RS485、Wiegand26/34 Communication rate: serial port rate 9600～115200bps,RJ 45 is 10Mbps Reliable firmware update: extensible upgrade mechanism Input/output（GPIO）：2 route input, 1 route output Power：External 22OV AC ,＋12V/3A DC adapter Consumption: Average Power<20W Non-condensing Enclosure：IEC IP52 Operating Temp.：-20 ºC to +60 ºC Humidity：5% to 95%, no condensed Dimensions：220(L)*200 (W)*48(H)mm Weight：1.5KG Application software interface：Provide API SDK,Demo in VC and VB.JAVA

Vanch Brand Model	Picture	Application industry	Specification
VF-647P Waterproof UHF RFID Fixed Reader		• Adopt High-strength die-casting aluminum shell,IP-67 protection rating • Adopt high-performance Impinj UHF reader chip IndyR2000 and TI ARM Embedded processing chip • achieve stable operation of the multi-lane free flow by Tag read sensitivity and Collaborative professional algorithm • Application: Intelligent transportation, Port and dock vehicle management and outdoor harsh environment	Frequency range: 860-868MHz, 902-928MHz Frequency modulation: FHSS or fixed frequency, can be set by software RF output: +10.0~+32.5dBm, 50ohm load Antenna number: 1~4 SMA antenna connectors Communication interface: 10M/100M adaptive Ethernet, RS232, RS485, Wiegand26/34 Communication rate: serial rate 9600~115200bps, RJ45 10Mbps Secure firmware upgrade: the upgrade mechanism can be extended Input/Output(GPI/O): 2 input, 1 output Application software: supply API SDK, VC, VB, JAVA application routines Reading distance: 3~20m with 8dbi antenna configuration(tag dependent) Protocol: EPC global UHF Class1 Gen2/ ISO18000-6C Dimension: 256(L)*200(W)*86(H)mm Power: 220V AC input Weight: <4kg Humidity: 5％~95％, non-condensing IP rating: IEC IP67 Operating Temp.: -20~+60℃ Storage Temp.: -40~+80℃

Vanch Brand Model	Picture	Application industry	Specification
VF-682 UHF RFID Fixed reader (8 ports)		• Use high performance Impinj UHF read chip IndyR1000, achieve best multi-tags read mode, best read rate and best read range • Apply for: supply chain, fixed assets management, library and archives management, manufacturing and etc	Tag air interfaces: EPC Gen 2 / ISO 18000-6C Frequency ranges：902～928MHz（customize for your requirement） Work style: For FHSS or fixed frequency Antenna connector: 8SMA (female)antenna ports RF power control: +10.0 to +32.5 dBm 8dbi antenna, Read distance 3~20M（Tags dependent） Max receiving sensitivity: -82 dBm; Maximum return loss: 10 dBm Communication interface：LAN、RS232 Communication rate: serial port rate 9600～115200bps,RJ45 is 10Mbps Reliable firmware update: extensible upgrade mechanism Power：External 22OV AC,12V/3A DC adapter Consumption: Average Power<20W Non-condensing Enclosure：IEC IP52 Operating Temp.：-20 ºC to +60 ºC Humidity：5% to 95%, no condensed Dimensions：220(L)*200 (W)*48(H) mm Weight：1.5KG Application software interface：Provide API SDK, Demo in VC and VB.JAVA
VI-85E UHF RFID Integrated Reader		• This reader can read and write for ISO-18000-6B, ISO-18000-6C(EPC G2),TK900 standard RFID TAGS. Integrated with antenna and reader, small volume, light weight, easy to install. Apply for vehicle access management, ETC,	Tag air interfaces: EPC global UHF ISO-18000-6C （EPC G2）,ISO-18000-6B standard Frequency ranges：902～928MHz（customize for your requirement） Work style: For FHSS or fixed frequency Antenna:9dbi antenna RF power control: 20-30dBm

Vanch Brand Model	Picture	Application industry	Specification
		personnel access management, electronic security, logistics monitor, production automation management and other industry.	9dbi antenna, Read distance5~10M（Tags dependent） Work mode：Auto, Command, trigger Communication interface：LAN、RS232、RS485、Wiegand26/34 Communication rate: Port rate9600～115200bps,RJ 45 is 10Mbps GP I/O Interface：I/O Interface (12 needle + 4 needle) Power：External 22OV AC,＋9V/3A DC adapter Consumption: Average Power<10W Non-condensing Enclosure：IEC IP54 Operating Temp.：-20 ºC to +60 ºC Humidity：5% to 95%, no condensed Dimensions: 285mm*205mm*77mm Weight：1.5KG Application software interface：Provide API SDK,Demo in VC and VB.JAVA
VI-86E UHF RFID Integrated Reader		● Application: logistics, access control, parking management, manufacturing control and etc.	Frequency range: 902-928MHz(or customized) FM mode: FHSS or fixed frequency, set by the software RF output: 30dBm adjustable, 50Ω load Communication interface: LAN, RS232, RS485, Wiegand 26/34 Communication rate: serial port 9600~115200bps, RJ45 10Mbps GP I/O interface: 12 pin + 4 pin Power dissipation: average <10W Application software: provide with API SDK, VC, VB, JAVA application routines Reading distance: 6~10m equipped with 9dbi antenna

Vanch Brand Model	Picture	Application industry	Specification
			(tag dependent) Protocol: EPC global UHF ISO18000-6C(EPC Gen2), ISO18000-6B Dimension: 306(L)*306(W)*25(H)mm Power supply: equipped with power convertor 220V AC input, +9V/3A DC output Weight: 2.6kg Installation: embrace rod mounting Diameter of support rod: 40-50mm Humidity: 5％~95％, non-condensing IP Rating: IEC IP65 Operation temp.: -20~+60℃
VI-88E UHF RFID Integrated Reader		● This reader can read and write forISO-18000-6B,ISO-18000-6C （EPC G2 ）,TK900standardRFID TAGS. Integrated with antenna and reader, easy to install. Apply for vehicle access management, ETC, personnel access management, electronic security, logistics monitor, production automation management and other industry.	Tag air interfaces: EPC Gen2, UHF ISO-18000-6C, ISO-18000-6B Frequency ranges：902～928MHz（customize for your requirement） Work style: For FHSS or fixed frequency Antenna: built-in 12dbi antenna RF power control: 20-30 dBm 12dbiantenna,Read distance5~18M（Tags dependent） Work mode：Auto, Command, trigger Communication interface：LAN、RS232、RS485、Wiegand26/34 Communication rate: Serial port rate 9600～115200bps,RJ 45 is 10Mbps GP I/O Interface：I/O Interface (12 needle + 4 needle) Power：External 22OV AC,＋9V/3A DC adapter Consumption: Average Power<15W Non-condensing Enclosure：IEC IP54

Vanch Brand Model	Picture	Application industry	Specification
			Operating Temp.：-20 ºC to +60 ºC
			Humidity：5% to 95%, no condensed
			Dimensions: 445*445*70 mm
			Weight：5KG
			Application software interface：Provide API SDK,Demo in VC and VB.JAVA
VF-82 UHF RFID Mobile reader	Charger Reader Mobile Reader Kit Antenna	Warehouse management for forklift, assets tracking	Tag air interfaces: EPC global UHF ISO-18000-6C（EPC G2）、ISO-18000-6B 、TK900 standard
			Frequency ranges：902～928MHz（customize for your requirement）
			Work style: For FHSS or fixed frequency
			Antenna connector: 4 个 SMA (female)antenna ports
			RF power control: 20～30 dBm
			2dbiantenna：Read distance1-3M（Tags dependent）
			Communication interface：LAN、RS232、RS485、Wiegand26/34、Bluetooth: IEEE802.15Tag air interfaces
			Communication rate: Serial port rate 9600～115200bps,RJ 45 is 10Mbps,Bluetooth rate: 1Mbps
			Reliable firmware update: extensible upgrade mechanism
			Power：Match 220V AC quickly charger, can rechargeable lithium battery 3.0Ah (18V)
			Consumption: Average Power<20W
			Non-condensing Enclosure：IEC IP52
			Operating Temp.：-20 ºC to +60 ºC
			Humidity：5% to 95%, no condensed
			Dimensions：190(L)*177 (W)*75(H) mm
			Weight：1.5KG

Vanch Brand Model	Picture	Application industry	Specification
			Application software interface：Provide API SDK,Demo in VC and VB.JAVA
VD-67 UHF RFID Desktop Reader/Writer		● USB UHF interface's special write device, can read, write, authorized, formatting and other operations.	Tag air interfaces: ISO-18000-6B、ISO-18000-6C（EPC G2）、TK900 Communication interface: USB Frequency ranges:902～928MHz (Customize for your requirement) Work style: For FHSS or fixed frequency Antenna connector：Inbuilt antenna Read distance ： inbuilt antenna, Read distance>30mm,write distance>10mm* Power: Use USB interface, don't need external power Weight：90g Dimensions: 115mm*82mm*25mm Support: USB1.1 Interface, virtual serial ports work model, USB model without driver program, USB simulation keyboard mode, and output format and parameters can be customize under simulation keyboard. Provide dynamic-link libraries (DLLS), support secondary development.
VH-770 UHF RFID Handheld Reader		Assets tracking, inventory	**performance & physical parameter** Protocol：EPC Class1 Gen2/ISO18000-6C CPU：High speed ARM platform，main frequency 450MHZ OS：Microsoft® Windows CE 6.0 RAM：128MB Memory card：2G Micro SD（standard configuration），support 32G at max.

Vanch Brand Model	Picture	Application industry	Specification
			Barcode module options： 1D module: Symbol SE955； 2D module: Honeywell 5180 (optional) WIFI：WLAN 802.11 b/g （standard configuration） Extend module：GPRS module，2.45G module（optional） Communication interface：USB Slave Audio：Typhoon, support multi-media function Dimension：183mm* 81mm*146mm Weight：703g(excluding charging base) Key：27 keys **Display & physical parameter** Screen：3.2 inch TFT LCD（240*320），resistive touch screen Battery：Rechargeable lithium polymer battery（3500mAh @ 7.4V ） Operation temperature：-20°C～+50°C Storage temperature：-30°C～+70°C Humidity：5%～95% non-condensing（25℃） Accessories：9V/1A charging base，USB cable **Frequency parameter** US：902 ～928MHz EU：865 ～ 868MHz，other standard can be customized Read distance：7 meters at max.（tag dependent） Write distance：3 meters at max.（tag dependent）

Vanch Brand Model	Picture	Application industry	Specification
VH-770AT UHF RFID Handheld Reader		Assets tracking, inventory	**Handheld parameter** Smart handheld: InFocus310 Processor: MT6589 4-core 1.5GHz Internal memory: 1GB OS: Android 4.2 Storage: 4GB（can be extended to 32GB） Screen: 4.7"HD 1280x720（capacitance screen，multi-point touch screen） Wi-Fi: IEEE 802.11b/g /n Network type: WCDMA,GSM Bluetooth 4.0 GPS navigation: A-GPS SIM card: Micro SIM card Power battery: 3.8V 2350mAh **RFID module parameter** Data transmission: USB interface Communication protocol: User-defined RFID module: UHF Barcode module: 1D（optional）、2D（optional） Power battery: Li-polymer rechargeable battery 6800mAh,3.8V Accessories: 5V/1A charger，USB-Mini 5 pin data line **UHF parameter** Frequency: 902MHz～928MHz, 865MHz～868MHz Protocol: EPC C1 G2(ISO18000-6C） Reading distance: About 10m or more(depends on tag) **Physical parameter**

Vanch Brand Model	Picture	Application industry	Specification
			Net weight: 615g
			Dimension(mm): 190×82×148
			Environmental parameter
			Operating temperature: -10℃～50℃
			Storage temperature: -20℃～70℃
			Storage humidity: 5％～95％, non-condensation
VH-70A UHF RFID handheld reader		Asset tracking	**Features** **The processor:** Cortex A9 1GHZ **Memory capacity:** ROM -EMMC 32Gb, RAM - LPDDR2 4Gb **The operating system:** Android 4.03 **Wireless communications:** **GPRS（option）-**GPRS, EDGE , 4-band 900/1800，850/1900 **WCDMA（3G，option)-**band 850/2100，Cat.8 HSDPA Cat.6 HSUPA **WIFI（standard）-** Conform to the IEEE 802.11b/g **Bluetooth（option）-** Conform to the Bluetooth 4.0 **Display:** 4.3"IPS display, The resolution of the 480*800, Gabo Lingual perspective, the sun is visible **Touch screen:** Support more capacitive touch; **Indicator light:**Network indicator light, charge indicator; **Audio:** Support the speech; **Micro SD card:** Support 32 gb MICRO SD card;

Vanch Brand Model	Picture	Application industry	Specification

			Data security: Product is the data security protection, in a completely off electricity (remove the battery and the power converter), data is not lost
			GPS indicators:
			    Channel: channel 12
			    Receive types: L1, C/A code and carrier phase smoothing
			    Re-capture: < 1 s
			    The latest ASIC chip; A squadron of patent algorithms; EVEREST multipath suppression technology
			    Error range: < = 10 meters
			Navigation map: Support navione, baidu, Google, gold and other navigation map;
			The input method: Full-screen handwriting, half screen handwriting, strokes and pinyin, Numbers, letters, symbols
			Physical interface: High-speed USB2.0 interface equipment end, 3.5 stick related plug-in interface
			camera（option）: The rear 5 million pixel camera with flash;
			The flashlight: Low power consumption LED lights lighting, emergency use;
			1D barcode（SE4500/N431X）
			Read code system Can read all kinds of main one-dimensional bar code: Code 39、Code 93、Code 128、Codebar、EAN-13、EAN-8、UPC-A、UPC-E、ITF 14、UCC/EAN-128、ITF 25、Matrix 25、EAN-128、ISBN
			Read distance 0 cm ～ 50 cm
			Read rate : First read rate of 99% or more, the error rate of 0.01% or

Vanch Brand Model	Picture	Application industry	Specification
			less, false reject rate is 0.01% or less
			2D barcode
			Moto-SE4500: Hardware decoding, the decoding speed and error rate of 0.01% or less;
			Honeywell-5180: Hardware decoding, the decoding speed and error rate of 0.01% or less;
			RFID
			UHF（915MHz）: More than 1m distance for EPC C1 GEN2 / ISO18000-6 - c protocol of 900 MHZ tag read operation (associated with tags and antenna)
			HF (13.56MHz）: 0 ~ 7 cm range for ISO15693, ISO14443 double deal 13.56 MHz tags for reading and writing (associated with tags and antenna)
			LF: 125 K / 134.2 K animal ear tag;
			PSAM: Support two PSAM card;
			HF (CPU card read) : Support the CPU card read and write, used with PSAM;
			Active in close communication (option）
			Active 2.45 G : Distance is 200 m, 200 m label can be read all at once;
			433M: Read more than 200 m distance, distance is adjustable;
			Battery performance
			The battery: 4000 mah lithium polymer battery, standby time: more than 150 hours, working time: more than 8 hours, ac adapter charging (1 a)
			The battery standby time: After a full charge, the wireless

Vanch Brand Model	Picture	Application industry	Specification
			communication function on standby, after 60 hours, can run normally **Battery charging time:** Charging time < 4.5 hour Charging time More than 8 hours (once charging) **The work environment** **Operating temperature:** -20℃ ~50℃ **Storage temperature:** -20℃ ~70℃ **Relative humidity:** 10%~90%RH，non indensity **Protection grade:** IP65 **Physical parameters** **The total weight:** Less than 300g (including battery, charger are not included); **The fuselage size:** 148 (L) x 77.5 (W) x 27 (T) ± 2 mm **The attachment** Standard 1 1 lithium battery, charger, USB data line
VH-70F UHF RFID Handheld Reader		Assets tracking	**Hardware parameter：** Dimensions：200 (L) mm * 89(W)mm * 46(H) mm（standard battery） Microprocessor：SAMNSUNG 400 MHz RAM：128M RAM/128M ROM Inbuilt optional modules：HF frequency, UHF frequency, one dimensional, two dimensional barcode Random memory card: users can access to UART slot (with safety cover), support SAM card, SIM card, TF card Screen: 3.5 color inches QVGA screen, TFT-LCD, 65K, 240(W)×320(L)（QVGA dimensions） Key: 28 pcs soft silicone button,5 pcs one-time operation function keys, and personalized design denis sassou-nguesso scan button

Vanch Brand Model	Picture	Application industry	Specification
			Main battery: charging polymer battery (3.7 V,3200 mAH),standby time: 150 hours, one time charge scanning number: 5000 times Extended battery capacity: optional charging polymer battery (3.7 V, 4400 mAH) Input methods: standard handwritten pen, can choose multiple input methods Audio: speaker, receiver, full-duplex recording and play (stereo) software support Indicator light: wireless transmitting/receiving, scanning, Power/charging, four state LED indicator light color Weight (including standard battery) : 400 g **Operation environment：** Operating system: Microsoft Windows CE 5.0 (multilingual) Develop language: WINCE environment, Provide secondary SDK support C#, vb.net, VC++ and so on many kinds of software development language **Data communication：** WWAN wireless communication: GPRS/GSM(ISO900、ISO1800 and ISO1900Mhz) WLAN wireless communication： WIFI, accord with IEEE802.11b （transmission rate 11M/second,）、IEEE802.11g(transmission rate 54M/ second) Inbuilt antenna; Bluetooth：Bluetooth IEEE802.15 tag air interfaces, Bluetooth rate is 1Mbps, Ⅱ,v1.2s. **Other：** Drop specification: during operating temperature range,6 faces all

Vanch Brand Model	Picture	Application industry	Specification
			can support　impact from 1.5 M high dropped to cement floor.
			Rolling specifications: 1000 times 0.5 M, six surfaces rolling.
			Non-condensing Enclosure：IP65
			Operating Temp：-20℃to 50℃;Storage Temp：-25℃to 70℃
			Humidity：5％RH～95%RH（no condensed）
			Data acquisition function：
			UHF module：
			Frequency ranges：902 - 928 or 865-868 MHz (customize for your requirement)
			Accord with standard：ISO-18000-6B、ISO-18000-6C（EPC G2）
			Antenna gain：0.5dB
			Antenna：Microstrip antenna
			Read distance：≤1.5M, Write distance:>0.2M
			RF power control：20-30dBm
			HF module：
			Tag air interfaces:ISO15693,ISO14443 Type A、Type B
			Interface: RS232
			Frequency:13.56MHz

Vanch Brand Model	Picture	Application industry	Specification
VH-75 UHF RFID Handheld Reader (with Android app)		Assets tracking	Frequency ranges：902 - 928 or 865-868MHz (customize for your requirement) Tag air interfaces standard：ISO-18000-6B、ISO-18000-6C（EPC G2） Work style: For FHSS or fixed frequency; Output power: Max 30dBm（can change）; Read distance>200cm,Write distance>20cm; Power：charging polymer battery (3.7V, 3200 mAH),standby time: 150 hours, one time charge scanning number: 5000 times Communication interface：USB1.1,Bluetooth IEEE802.15 tag air interfaces, Bluetooth rate is 1 Mbps Memory card:2G(MiniSD) Dimensions:180（L）*55（W）*30（H）mm Operating Temp：-20℃to 50℃;Storage Temp：-25℃to 70℃ Humidity：5％RH～95%RH（no condensed） Weight：250G
VX-3/M antenna Multiplexer		VX-3 / M is a High performance UHF multiplexer, and is initiative middleware hardware product in domestic, the patent design is ZL2010 2 0593038.1. It can support up to 32 unit slave multiplexer and 256 unit antenna, and also can provide the antenna connection status in real time.Therefore; the RF signal from one output port (reader) can be switched to any of the 256unit antenna. This item is best choice for the intelligent shelves,	Frequency ranges：860 - 960 MHz RF input:1 SMA RF output interface RF output: MCX RF output interface OUT1~OUT8 Communication interface：TCP/IP network interface Power：External 22OV AC,＋12V/3ADC adapter Connection way: physical connection is simple, slave multiplexer get the power from Master multiplexer via RF cable, without additional power supply, ;8 units MCX output interface, every interface support 4 slave multiplexer , and also connect to antenna directly Every slave multiplexer is can connect to 8 units antenna at most, so

Vanch Brand Model	Picture	Application industry	Specification
		intelligent bookshelf for Books or files	one main multiplexer output interface can connect to 32 units antenna. Status: When connect to power supply, this item automatic inquires on slave multiplexer and antenna connection status, and support the current connection dynamic update; Maximum support 256 units antenna switching, and antenna switching speed is less than 100 ms. Dimensions: 200mmx105mmx28mm Weight：550G

Vanch Brand Model	Picture	Application industry	Specification
VC-420 UHF RFID Gate reader		RFID portal reader is whole system based on reader, antennas; EAS alarm system, power and other devices. When the goods with RFID tag go through this channel, the antenna read tag information and transfers to the reader in real-time time and in order to achieve the goods or personnel control management purpose. Apply to warehouse asset management, clothing industry, book files, access control channel attendance, production process control and other high flow rate applications and also work flow control, and so on.	Tag air interfaces: EPC global UHF ISO-18000-6C（EPC G2）、TK900standard Frequency ranges：902～928MHz（customize for your requirement） Work style: For FHSS or fixed frequency Antenna connector: 4 units SMA antenna ports, 7dbi circular polarized antenna, antenna's height can be adjustable. RF power control: 20～30dBm can change 7dbiantenna,Read distance1.5~3M（tags dependent） Communication interface：LAN、RS232、RS485、Wiegand26/34 Communication rate: serial port rate9600～115200bps,RJ 45 is 10Mbps Reliable firmware update: extensible upgrade mechanism GP I/O Interface：I/O Interface (12 needle + 4 needle) EAS triggered alarm: 3 seconds audible reminder Power：External 22OV AC Consumption: Average Power<20W Non-condensing Enclosure：IEC IP51 Operating Temp.：-20 ºC to +60 ºC Humidity：5% to 95%, no condensed Dimensions：180(H)*35(W)*20(H)CM Weight：20KG Application software interface：Provide API SDK,VC and Demo in VB.JAVA application

Vanch Brand Model	Picture	Application industry	Specification
VPR-0207 UHF RFID Printer		• Print on RFID labels • Encoding for UHF RFID labels	Print mode: direct thermal/thermal transfer Resolution: 300dpi, 12 dots/mm Max. print speed: 8 inch/sec, 254mm/sec Print width: 4.1 inch, 104mm Tag width: 4.6 inch, 118mm Tag high: 0.25~32 inch, 6.4~812mm Paper roll outer diameter: 8 inch, 200mm, length 100~150m Paper roll inner diameter: 1-3 inch, 25.4~76.2mm Ribbon roller outer diameter: 3.4 inch, 86.5mm, length 300~450m Ribbon inner diameter: 1 inch, 25.4mm Roll type: roll inside or outside Ribbon type: WAX, WAX/RESIN, RESIN Paper locating: double sensors, lead fixed sensors, rear movable sensor Tension balance: ARCP tension balance structure Communication port: RS232C, USB1, USB2 RF-enabled: standard UHF module or HF module, support mainstream RFID chips data protocol Memory capacity: RAM memory 16MB(1MB for User), Flash(nv) memory 4MB(1MB for User), total 20MB Standard model: VANCH VPR0207　UHF single user Customization model: according to user application needs Machine size: 10*19*10 inch, 255*480*253mm Weight: 13.8kg (32LBS) Operating temp.: +5~+40℃