CHAMPTEK®

We value your ID's

SCANTECH ID®

Leading Auto-ID Total Solution Provider

2017 version

Brand Story

Champtek was founded in 1985 with specialized in AIDC industry. We are a leading total solution provider and manufacturer of auto-ID devices in Taiwan.

Besides the big success in marketing with CHAMPTEK brand, Champtek acquired Scantech ID, the Netherlands-based top 5 omni-directional scanner manufacturer in 2006, and strives to the global marketing with dual brand of CHAMPTEK and SCANTECH ID.

CHAMPTEK and SCANTECH ID nowadays provide a broad variety of AIDC solution including scan kiosks, price checkers, barcode scanners, NFC and RFID, and magnetic card readers from high C/P value combination to industrial grade segment.

The 'V' in the CHAMPTEK

The red V in the middle of CHAMPTEK stands for VALUE, which represents we respect customers' value from heart. We commit, we dedicate our value. We, value your ID's!

Product Portfolio

Champtek currently operates under two brand names, "CHAMPTEK" and "SCANTECH ID", and provides the total solution to the variety of customers' needs.

You willl find specific brands (CHAMPTEK / SCANTECH ID) on the right hand corner on top of the page for branding category under each product section.

Gun Type Scanners

600 / 700 / 800 wired and wireless series

Contact to middle range Scanners

SD380 / SD700 / SD320 / SD120

Mag. Stripe, Slot and Wand Readers

MR300 / BR300 / WD200

Fixed Mount Scanners

IP65 700 fixed mount series

Pocket Scanners

MB200X / MB300X

NFC / RFID Solutions

NFC Reader and module, 433MHz Readers, router and tags

Scanner Modules

MCR14 / MCR14S / MIR3+ / MIR4

CHAMPTEK ®

We value your ID's

Scan Kiosks / Price Checkers

SK-100 / SK-50 / SK-40 / SG-15C

SCANTECH ID ®

Desktop Scanners

AQUILA A-8050 / NOVA N-4080i / LIBRA L-7080i / MICA M-9080i

Scan Kiosks / Price Checkers

Brand Availability
☐ CHAMPTEK®
☑ SCANTECH ID

- • Multifunction scan kiosk for diversified applications in self-service, auto-ID, multimedia service and digital signage
- • 10.1" LCD with capacitive multitouch screen
- • Powered by Linux or Android

- • Best value scan kiosk for self-service, interactive service, information & multimedia service, and ID identification applications in retail, transportation, medical care, hospitality and office building
- • 5.7" touch screen / 4.3" color display
- • Patented adjustable scanner head design
- • Powered by Linux or WinCE OS

- • Best value price checker to increase productivity and efficiency in retail shops
- • 3.5" color display
- • Remote package upgrade
- • WIFI connectivity (optional)

System Architecture

	SK-100	SK-50	SK-40	SG-15 Colour
Operating Platform	Linux 3.0 or Android 4.4	Linux 2.6 or WinCE 6.0		Linux 3.0
Storage	Internal: 4GB/8GB External: USB flash disk (not included)	Internal: 256MB; expandable by SD card (in factory) External: USB flash disk (not included)		Internal: 4GB External: USB flash disk (not included)
Memory RAM	1GB/2GB	128MB		512MB
Power Supply	DC 12V/1.5A power adapter or PoE (optional)			DC 5V/2.0A power adapter or PoE (optional)
Dimensions	278x240x86mm	193 x 176 x 85mm		182 x 131 x 95mm

Output Media

	SK-100	SK-50	SK-40	SG-15 Colour
Display Size	10.1" (diagonal)	5.7" (diagonal)	4.3" (diagonal)	3.5" (diagonal)
Brightness	500 nits	400 nits	350 nits	450 nits
Resolution	1280 × 800 pixels (16M colors)	640 x 480 pixels (65K colors)	480 x 272 pixels (65K colors)	320 x 240 pixels (16M colors)
Touch Screen	Capacitive type	Resistive type	N/A	N/A
Image Format	PNG, JPEG, GIF, BMP			PNG, JPEG, GIF, BMP
Audio Format	WAV, WMA, MP3			WAV
Video Format	MPEG-4, H.264			N/A
Speakers	Loudspeaker (2Watt) x 2			Loudspeaker x 1
Bluetooth Audio	optional	N/A		
Headphone	N/A	3.5 mm jack		N/A

Data Ports

	SK-100	SK-50 / SK-40	SG-15 Colour
	USB x 3, HDMI x 1, RS232 x 1, LAN x 1 (for Ethernet or PoE), GPIO x 2	USB x 2, RS232 x 1, LAN x 1 (for Ethernet or PoE), GPIO x 1 (optional)	USB x 1, RS232 x 1, LAN x 1 (for Ethernet or PoE)

Network Interface

	SK-100	SK-50 / SK-40	SG-15 Colour
Wired LAN	10/100Mb Ethernet (802.3); Power over Ethernet 802.3af (optional)		
Wireless LAN	802.11a/b/g/n/ac, 2.4GHz and 5GHz dual-band (optional)	802.11b/g/n 2.4 GHz(Optional)	802.11a/b/g/n/ac, 2.4GHz and 5GHz dual-band (optional)
Encryption protocols	WPA, PSK and WPA Enterprise security		WPA, WPA-1/2 Personal & Enterprise

Data Inputs

	SK-100	SK-50 / SK-40	SG-15 Colour
Scanner Type	2D area imager	1D omni-directional laser or 2D area imager (selectable)	1D omni-directional laser, 1D Linear imager, 2D area imager (selectable)
Scanner Adjustable	N/A	Adjustable from 10° to 45° vertical in 5° step lock	N/A
Optional	NFC Reader (ISO 1443A / ISO 1443B / ISO 15693 MIFARE Classic / MIFARE UL), Camera & Microphone	NFC Reader (ISO 1443A / ISO 1443B / ISO 15693 MIFARE Classic / MIFARE UL)	N/A

Software and Applications

	SK-100	SK-50 / SK-40	SG-15 Colour
	Price checker (Linux version only), remote package upgrade , web management tool	Price checker, web management tool, remote package upgrade (Linux version only)	Price check application, web management, remote package upgrade

Gun-type Scanners

IP protection Sealed Gun-type Scanner

- General use for every enviorment and application in retail, production, logistics, warehouse
- Ruggedized design with IP54/IP42 protection
- 4-in-1 combo interface with quick swap interface cable
- Bluetooth v2.1, supports HID and SPP profile
- Up to 100m transmission range (in open space)

Specification	SG700/BT	IG710/BT	IG720	LG710/BT
Light Source	632±5nm Red LED	625±5nm Red LED	625±5nm Red LED	650±10nm VLD
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 250mm@20mil/0.5mm, PCS90%,Code39	Up to 300mm@20mil/0.5mm, PCS90%, Code 39
Field of View	Horizontal: 45°	Horizontal: 40°, Vertical: 25°	Horizontal: 40°, Vertical: 25°	Horizontal: 45°
Scan Rate (per second)	Smart detection, up to 500 scans	1D mode: 120 scans 2D mode: 60 images	60 images	50 scans ±5%
Resolution	4mil/0.1mm	1D: 4mil/0.1mm 2D: 5mil/0.127mm	1D: 4mil/0.1mm 2D: 10mil/0.26mm	5mil/0.127mm
Print Contrast Ratio	25%		45%	25%
Indicator	Beeper and LED			
Ambient Light	Up to 100,000 Lux			Up to 5,000 Lux
Interface	RS232, USB (HID, Virtual COM), KBW		RS232, USB (HID, Virtual COM)	RS232, USB (HID, Virtual COM), KBW
Dimensions	177.9 x 75 x 71.3mm			
Power	DC 5V			
Sealing	IP54 (wired model), IP42 (wireless model)			
Drop Resistance	1.8m (wired model) 1.5m (wireless model)			1.5m (wired model) 1.2m (wireless model)

Wireless Characteristics

Wireless Standard	Bluetooth V2.1, HID and SPP profile supported
Battery	Lithium-ion Battery (3.7V, 2600mAh)
Recharge Time	Approx. 5 hours
Scan Per Charge	50,000 times (continuous read) / 20,000 times (continuous read) / 50,000 times (continuous read)
Radio Transmission Range	Class 1, up to 100m (in open space)

Symbologies

1D codes | GS1 | 1D codes 2D codes | GS1 | 1D codes | GS1 (Linear)

General Purpose Gun-type Scanner

- General use for every enviorment and application in retail, production, logistics, warehouse
- Ergonomic and trendy design
- Ruggedized design with IP42 protection
- 4-in-1 combo interface with quick swap interface cable
- Bluetooth v2.1, supports HID and SPP profile
- Up to 100m transmission range (in open space)

Specification	SG800/BT
Light Source	632±5nm Red LED
Depth of Field	Up to 600mm@20mil/0.5mm, PCS90%, Code 39
Field of View	Horizontal: 45°
Scan Rate (per second)	Smart detection, up to 500 scans
Resolution	4mil/0.1mm
Print Contrast Ratio	25%
Indicator	Beeper and LED
Ambient Light	Up to 100,000 Lux
Interface	RS232, USB (HID, Virtual COM), KBW
Dimensions	192x78x72mm
Power	DC 5V
Drop Resistance	1.8m (wired model) 1.5m (wireless model)

Wireless Characteristics

Wireless Standard	Bluetooth V2.1, HID and SPP profile supported
Battery type	Lithium-ion Battery (3.7V, 2600mAh)
Charge Time	Approx. 5 hours
Scan Per Charge	50,000 times (continuous read)
Radio Transmission Range	Class 1, up to 100m (in open space)

Symbologies

1D codes | GS1

General Purpose Gun-type Scanner

- General use for every enviorment and application in retail, production, logistics, warehouse
- High quality and high C/P value
- 4-in-1 combo interface with quick swap interface cable
- Bluetooth v2.1, supports HID and SPP profile
- Up to 100m transmission range (in open space)

Specification	SG600/BT	LG610/BT	IG610/BT	IG620/BT
Light Source	632±5nm Red LED	650±10nm VLD	625±5nm Red LED	
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 300mm@20mil/0.5mm, PCS90%, Code 39	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 250mm@20mil/0.5mm, PCS90%, Code36
Field of View	Horizontal: 45°		Horizontal: 40°, Vertical: 25°	
Scan Rate (per second)	Smart detection, up to 500 scans	50 scans ±5%	1D mode: 120 scans 2D mode: 60 images	60 images
Resolution	4mil/ 0.1mm	5mil/0.127mm	1D: 4mil/0.1mm 2D: 5mil/0.127mm	1D: 4mil/0.1mm 2D: 10mil/0.26mm
Print Contrast Ratio	25%			45%
Indicator	Beeper and LED			
Ambient Light	Up to 100,000 Lux	Up to 5,000 Lux	Up to 100,000 Lux	
Interface	RS232, USB (HID, Virtual COM), KBW			RS232, USB (HID, Virtual COM)
Dimensions	169.2x71.1x62.6mm			
Power	DC 5V			
Drop Resistance	1.5m (wired model) 1.2m (wireless model)			

Wireless Characteristics

Wireless Standard	Bluetooth V2.1, HID and SPP profile supported	
Battery	Lithium-ion Battery (3.7V, 2600mAh)	
Charge Time	Approx. 5 hours	
Scan Per Charge	50,000 times (continuous read)	20,000 times (continuous read)
Radio Transmission Range	Class 1, up to 100m (in open space)	

Symbologies

1D codes GS1 | 1D codes GS1 (Linear) | 1D codes 2D codes GS1 | 1D codes 2D codes GS1

Handheld Linear Imager Scanners

- Best C/P value barcode scanner with reliable quality and performance
- 1D barcode reading, up to 3mil resolution
- Lightweight and compact design for comfortable handheld

Specification	SD120	SD320	SD700	SD380
Light Source	632±5nm Red LED			
Depth of Field	Contact to 60mm@20mil/0.5mm, PCS90%,Code39	Contact to 50mm@20mil/0.5mm, PCS90%, Code39	Contact to 80mm@20mil/0.5mm, PCS90%,Code39	Contact to 300mm@20mil/0.5mm, PCS90%, Code39
Width of Field	80mm (60mm at window)	90mm (80mm at window)	90mm (80mm at window)	90mm (40mm at window)
Scan Rate	120 scans		200 scans±10%	100 scans±10%
Resolution	4mil/0.1mm		3mil/0.076mm	4mil/0.1mm
Print contrast ratio	25%			
Dimensions (WxHxL)	166.4 x 78 x 77.8mm	173.5 x 90 x 56.2mm	171.3 x 82.8 x 75mm	168 x 65 x 54.9mm
Indicator	Beeper	Beeper and LED		Beeper
Ambient light	Up to 5,000 Lux Max		Up to 20,000 Lux Max	Up to 10,000 Lux Max
Interface	RS232, USB(HID,Virtual COM),KBW			
Power	DC 5V			
Drop resistance	1.2m			1.5m

Symbologies

1D codes GS1

Small Footprint Presentation Scanner

- Exclusive STAR code reconstruction technology to enhance reading speed and accuracy to truncated, damaged and substandard barcodes
- IP42 environmental sealing protection
- Up to 102° up and down tilting angle to fit in all user scenarios

- High volume hands-free scanning to increase efficiency in retail stores
- High accuracy in reading of 1D and 2D codes printed or on mobile devices
- Up to 102° up and down tilting angle fits to on desk or wall-mounted installation and all user scenarios

- Advanced scan pattern design with 20 scanning line for high volume hands-free barcode reading
- Built-in EAS antenna for simultaneously barcode scanning and EAS tag deactivation
- Maximized life time and optimized power consumption by intelligent sleep and wake-up auto-sensing technology
- IP42 environmental sealing protection

Specification	LIBRA L-7050	LIBRA L-7080i	AQUILA A-8050
Light Source	650±10nm VLD	625± 10nm Red LED	650nm ± 10nm Laser diode
Depth of Field	Up to 230mm@13mil/0.33mm, PCS90%, Code 39	Up to 230mm@13 mil/0.33mm, PCS90%, Code 39	Up to 240mm@13mil/0.33mm, PCS90%, Code 39
Scan Pattern	6 directions scan field, 24 lines scan pattern	Horizontal: 40°, Vertical: 25°	5 directions scan field, 20 lines scan pattern, Single Line option
Scan Rate (per second)	2,000 scans ± 5%	60 images	1350 scans
Resolution	5mil/0.127mm	1D: 4mil/0.1mm, 2D: 8mil/0.2mm	4mil/0.1mm
EAS	Yes		
Print Contrast Ratio	30%		
Indicator	Beeper and LED		
Ambient Light	Up to 4,800 Lux	Up to 100,000 Lux	Up to 4,800 Lux
Interface	RS232, USB(HID, Virtual COM), KBW, Power USB (option)	RS232, USB(HID, Virtual COM)	
Dimensions	161.5x97.7x94xmm		164x116x84mm
Power	DC 5V @2A		

Symbologies

| 1D codes | GS1 | | 1D codes | 2D codes | GS1 | | | 1D codes | GS1 |

- Designed for high volume hands-free scanning
- Maximized life time and optimized power consumption by intelligent sleep and wake-up auto-sensing technology
- Optional stands and adjustable scanner angle fits in all mouting senarios

- High accuracy in reading of 1D and 2D codes printed or on mobile devices
- Optimized design for hands-free barcode scanning in built-in and OEM applications
- Compact size fits to on desk or wall-mounted installation

Specification	MICA M-9030 with Stand	MICA M-9080i with Stand
Light Source	650±10nm VLD	625±10nm VLD
Depth of Field	Up to 230mm@13mil/0.33mm, PCS90%, Code 39	Up to 230mm@13mil/0.33mm, PCS90%, Code 39
Scan Pattern	6 directions scan field, 24 lines scan pattern	Horizontal: 40°, Vertical: 25°
Scan Rate (per second)	2,000 scans ± 5%	60 images
Resolution	5mil/0.127mm	1D: 4mil/0.1mm, 2D: 8mil/0.2mm
EAS	N/A	
Print Contrast Ratio	30%	
Indicator	Beeper and LED	
Ambient Light	Up to 4,800 Lux	Up to 100,000 Lux
Interface	RS232, USB(HID, Virtual COM), KBW, Power USB (option)	RS232, USB(HID, Virtual COM)
Dimensions	67x62x46mm (body only)	
Power	DC 5V @2A	

Symbologies

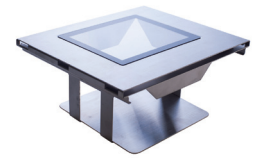| 1D codes | GS1 | | 1D codes | 2D codes | GS1 |

Omni-directional Laser Counter Scanner

- Desktop scanner suited for desktop, wall-mounted, on-counter or in-counter installation
- Exlusive STAR code reconstruction technology to enhance reading speed and accuracy on truncated, damaged and substandard barcodes
- Advanced omni-directional scan pattern to enhance reading accuracy
- Maximized life time and optimized power consumption by auto-sensing technology for sleep and wake-up
- Touch control sensors for volume adjustment
- Built-in EAS antenna for simultaneously barcode scanning and EAS tag deactivation

- Metal Frame for NOVA Series

Specification	NOVA N-4060	NOVA N-4070
Light Source	650±10nm VLD	
Depth of Field	Up to 250mm@13mil/0.33mm, PCS90%, Code 39	
Scan Pattern	7 directions scan field, 24 lines	
Resolution	5mil/0.127mm	
Indicator	Beeper and LED	
Print Contrast Ratio	30%	
Interface	RS232, USB (HID or Virtual COM), KBW, Power USB	
Dimensions	152x152x90mm	
EAS	YES	
Ambient Light	Up to 6,400 Lux	Up to 7,000 Lux
Input Voltage	DC 5V@2A	DC 12V @1.5A

Symbologies

1D codes   GS1

2D Area Imager Counter Scanner

Specification	NOVA N-4080i	PAVO P-3080i
Light Source	625±10nm Red LED	
Depth of Field	Up to 300mm@20mil/0.5mm, PCS90%, Code 39	
Scan Pattern	Horizontal: 40°, Vertical: 25°	
Resolution	1D: 4mil/0.1mm, 2D: 8mil/0.2mm	
Indicator	Beeper and LED	
Print Contrast Ratio	30%	
Interface	RS232, USB (Virtual COM)	
Dimensions	152x152x90mm	152x152x91mm
EAS	YES	
Ambient Light	Up to 100,000 Lux (direct sunlight)	
Input Voltage	DC 5V @2A	

Symbologies

1D codes   2D codes   GS1

- Ideally suited for high-volume scanning in retail, transportation and production
- FS700(1D Linear Imager), FI710(2D Area Imager),
  FS310(1D Linear Imager), FI310(2D Area Imager), FI320(2D Area Imager)

Specification

Specification	FS700	FI710	FS310
Light Source	632±5nm Red LED	625±5nm Red LED	632±5nm Red LED
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 500mm@20mil/0.5mm, PCS90%, Code 39
Scan Rate (per second)	Smart detection, up to 500 scans	60 images	Smart detection, up to 500 scans
Resolution	0.1mm/4mil	1D: 4mil/0.1mm 2D: 8mil/0.2mm	0.1mm/4mil
Print contrast ratio	30%		
Indicator	Beeper and LED		Beeper
Interface	RS-232, USB (HID, Virtual COM)		
Ambient Light	Up to 100,000 Lux		
IP Rating	IP65		N/A
Dimensions	64.6x59.2x30mm		69x56x27.7mm
Power	DC 5V		

Symbologies

1D codes GS1	1D codes 2D codes GS1	1D codes GS1

Specification

Specification	FI310	FI320
Light Source	625±5nm Red LED	
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 250mm@20mil/0.5mm, PCS90%, Code 39
Scan Rate (per second)	60 images	
Resolution	1D: 4mil/0.1mm 2D: 8mil/0.2mm	1D: 4mil/0.1mm 2D: 10mil/0.26mm
Print contrast ratio	30%	45%
Indicator	Beeper	
Interface	RS-232, USB (HID, Virtual COM)	
Ambient Light	Up to 100,000 Lux	
IP Rating	N/A	
Dimensions	69x56x27.7mm	
Power	DC 5V	

Symbologies

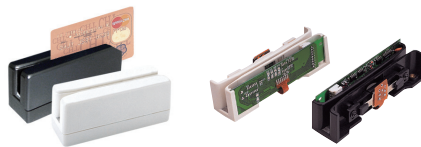1D codes 2D codes GS1

Pocket Scanners

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- Perfectly fit for highly mobile users in warehouse, logistics, retail and production
- Bluetooth Class 2, HID and SPP mode supported
- 1D omni-directional laser, 1D linear imager or 2D imager scanner (selectable)
- Over 10,000 times scan battery life
- Robust design with 1.5m Drop Resistance Resistance and IP54 sealing protection
- High contrast rate 0.96" OLED display (*MB300x series)
- Synchronization app for mobile devices and PC

Specification	MB200	MB300
Storage	8MB (over 100,000 scans of 50 bytes barcode)	
Display	N/A	0.96" OLED (128x64 dots, monochrome)
Indicator	LED x 1, Beeper x 1, Vibrator x1	
Engine	Laser: MB200L, 1D Linear Imager: MB200C, 2D: MB200i	
	Laser: MB300L, 1D Linear Imager: MB300C, 2D: MB300i	
Battery	Lithium-Polymer Battery (3.7V, 500mAh)	
Battery Charging	via Micro USB	
Dimensions	90x41x23.4mm	
Weight	70g	
Available color	Black cover and dark gray bottom cases	
IP Rating	IP54	
Drop Resistance	1.5m	

Magnetic / Barcode Slot Readers / Pen Scanners

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Specification	MR300/800	MMR
Magnetic Card	IISO 7810-7813 and JISII	
Interface	TTL/KBW/RS232/USB	
Life Cycle	1,000,000 times	
Tracks T1&T2&T3	Decording Density T1/T2/T3: 210/75/210 BPI	
	Capacity T1/T2/T3: 79/40/107 Characters	
Scan Rate	100-1000mm/sec	

Specification	BR300/800	MBR
Light Source	RED LED/ IR	
Interface	TTL/KBW/RS232/USB	
Resolution	5.9mil/0.15mm	
Readable Barcodes	All UPC/EAN/JAN, EAN128 Code	
	Code 39, Code 128, CODABAR/NW7, Interleave 25	
Scan Rate	100-1000mm/sec	

Specification	WD100	WD200	WD300
Light Source	660nm Red LED		
Sensor	Photo Diode		
Scan Speed	50-500mm/sec		
Depth of Field	Contact Type		
Resolution	5mil/0.127mm		
Ambient Light	Up to 1,500 Lux (direct sunlight)		

Symbologies

1D codes   GS1

Active RFID Reader

- Advanced two-layer anti-collision technique
- Support Star and Mesh topology
- Smart channel clear detection
- User configurable setting
- Frequency hopping
- High throughput
- Data encryption

RFR100 TCP/IP Reader	RFR400 Router
117x79x28mm	117x79x28mm
User configurable identification range (1m to 90m)	Alternative auto-organized and self-assigned mode
Complete command set and API support	Load balance
Identify up to 160 tags per second	Plug and play

Active RFID Tag

- Advanced two-layer anti-collision technique
- User configurable transmission period
- User configurable transmission power
- Low-battery detection
- Long battery life

Asset Tags

RFT100 Magnetic Reed Type	RFT102 Standard Type	RFT106 Motion Type
66x28x8mm		
Tamper detection		
Magnetic reed detection		Motion detection

Badge Tag

Sensor Tags

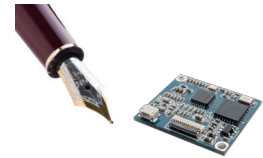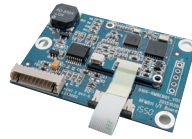| RFT200 Standard Type	RFT300 Humidity Type	RFT301 Temperature Type
94x58x5mm	66x28x8mm	94x58x5mm
Panic button	Humidity detection	Temperature detection
Clock-in button	Temperature detection	8KB EEPROM memory
Water-resistance		Water-resistance

Wristband Tags

RFT500 Standard Type	RFT501 Motion Detection Type
48x30x15mm	
Panic button	
Temperature detection	Motion detection
Take-off detection	
Water-resistance	

NFC Reader Overview

- 13.56MHz radio frequency Near Field Communication (NFC)
- Fully compatible with ISO/IEC 15693, ISO/IEC 18092 Tag, ISO/IEC 14443A/B, MIFARE and FeliCa protocols
- 424 Kbps read/write speed
- Complete command library and software configuration utility for system integration

Series	NFC Reader	NFC Kit	NFC Module
Product Configuration	Reader or (Reader and Writer)	NFC Reader without housing (PCBA module + interface board + USB cable)	PCBA module
Model	**RFR811**	**RFK811**	**RFM811**
Standards	UID Reading (ISO/IEC 15693, ISO/IEC 18092 Tag, ISO/IEC 14443A/14443B, MIFARE and FeliCa card)		
Interface	RS232 / USB Virtual COM / USB HID		
Data Format	ASCII code		
Model	**RFR811M**	**RFK811M**	**RFM811M**
Standards	MIFARE UID Reading, Data Reading and Writing		
Interface	RS232 / USB Virtual COM		
Data Format	binary data		
Read/Write Command	APDU		
Model	**RFR811i**	**RFK811i**	**RFM811i**
Standards	ISO15693 UID Reading, Data Reading and Writing		
Interface	RS232 / USB Virtual COM		
Data Format	binary data		
Read/Write Command	APDU		
Dimensions	90x90x17mm	50x35x4.5mm	23.5x20x3mm
Power	DC 5V		
Indicator	2 color LED and Beeper		
Antenna	Built-in antenna (reading distance up to 50mm)	Antenna included (reading distance up to 50mm)	optional
Mounting Kit	Optional mounting bracket for desktop or wall mounting	N/A	

• Compact size design for built-in or OEM product applications

Specification	MCR14	MCR14S
Light Source	632±5nm Red LED	
Depth of Field	Up to 500mm@20mil/0.5mm, PCS90%, Code 39	Up to 400mm@20mil/0.5mm, PCS90%, Code 39
Scan Rate (per second)	Smart detection, up to 500 scans	100 scans ±10%
Field of View	Horizontal: 45°	
Resolution	4mil/0.1mm	
Print Contrast Ratio	30%	45%
Indicator	Beeper	
Interface	Module only: UART/USB (HID, Virtual COM) Module with interface board: RS232/USB/KBW	Module only: UART/USB (HID, Virtual COM) Module with interface board: RS232/USB/KBW
Dimensions	25x20x11.5mm	
Power	DC 5V	

Symbologies

1D codes | GS1

Specification	MIR3+	MIR4	MIR3F
Light Source	625±5nm Red LED		
Depth of Field	Up to 250mm@20mil/0.5mm, PCS90%, Code 39	Up to 300mm@20mil/0.5mm, PCS90%, Code 39	
Scan Rate (per second)	60 images		
Field of View	Horizontal: 40°, Vertical: 25°		Horizontal: 55°, Vertical: 35°
Resolution	1D: 4mil/0.1mm 2D: 10mil/0.26mm		1D: 5mil/0.1mm 2D: 20mil/0.5mm
Print Contrast Ratio	45%		
Indicator	Beeper		
Interface	RS232, USB (HID, Virtual COM)		
Dimensions	53x40.9x21.4mm (wide board with two mounting area) 36x40.9x21.4mm (narrow board with one mounting area) 30.2x16.9x18.5mm (imager size with sensor board)	53x40.9x21.4mm (wide board with two mounting area) 36x40.9x21.4mm (narrow board with one mounting area) 22.7x12.35x12mm (imager size with sensor board)	53x40.9x21.4mm (wide board with two mounting area) 36x40.9x21.4mm (narrow board with one mounting area) 30.2x16.9x18.5mm (imager size with sensor board)
Power	DC 5V		

Symbologies

1D codes | 2D codes | GS1

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