



Smarter... Faster... Higher...

STA C3000

Rugged Handheld UHF RFID Reader

High Industrial-Class, Multi-modules Customized, Multifunction Rugged Handheld UHF Reader



Features

Description

“ALL IN ONE”
Design

Optional modules including 1D/2D barcode scanning, RFID cards/tags reading under UHF protocols, WiFi/GPRS/Bluetooth communication, GPS positioning and image capturing.

More Rugged with Higher
Industrial
Standard

Rugged structure with IP64 rating, better dust-/wafer-proof capability and 1.5 m drop survival to concrete to ensure high performance under various extremely environments.

Expansibility &
Customization

Various function modules such as infrared, fingerprint, thermal printer can be integrated according to specific project requirements. The UHF working frequency can be customized from 840 MHz to 960 MHz.



Product Specifications C3000

PHYSICAL CHARACTERISTICS

Dimensions	15.3 cm * 7.5 cm * 2.9 cm
Weight	330g (included standard battery and scanners)
Display	Color 3.5" QVGA TFT-LCD with backlight, 65K colors, 240 W x 320 L (QVGA size)
Input Method	Touch input and keyboard input
Expansion Slot	PSAM, SIM/PSAM, MicroSD/TF card slot under the battery
Battery	Rechargeable li-ion polymer battery 3.7V/3200mAh Pistol Grip: rechargeable li-ion polymer battery 3.7V/5200mAh MAX (with pistol grip)
Audio	0.5 watt
Keypad	41 silica gel buttons and 3 side buttons

PERFORMANCE CHARACTERISTICS

CPU	Freescale 800MHz
RAM	256MB
Memory	4GB INAND FLASH; MicroSD/TF card, maximum 32G
Interface/Communications	USB port for sync with PC (set USB as OTG, it recognizes external devices like U disk) RS-232 port for printer debugging DC port for charging

PROGRAMMING ENVIRONMENT

Operating System	Windows Embedded CE 6.0
SDK	Chainway Software Development Kit
Language	C++, C#, VB.NET
Tool	Visual Studio 2005/2008

USER ENVIRONMENT

Operating Temp	-10°C to 50°C
Storage Temp	-40°C to 70°C
Humidity	5%RH to 95%RH non-condensing
Drop Spec	Multiple 5ft./1.5m drops over operating temperature range, in accordance with MIL-STD 810G
Tumble Spec	1,000 0.5m tumbles, in accordance with IEC tumble specification
Sealing	IP64
Electrostatic	+/-15kv VDC ai
Discharge (ESD)	+/-8KV VDC direct discharge, +/-8KV VDC indirect discharge

DATA CAPTURE OPTIONS

Barcode	1D Linear scanner (SE655 CCD or SE955 laser); 2D Imager (SE4500 CMOS);
RFID	HF13.56MHz, UHF865~868MHz or 920-925MHz
GPS	Internal
Camera	

1D Linear Scanner

1D CCD scanner	Symbol SE655 (Optional)
Optical resolution	5Mil min width
Roll tolerance	
Pitch tolerance	
Skew tolerance	
Ambient light	0ft.candles-10
Scan repetition rate	50 per second
Scan angle	53°±3°
Barcode type	UPC/EAN, Bookland EAN, Code 128, Code 39, Code 93, Code 11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Matrix 2 of 5, Inverse 1D, MSI, GS1 DataBar, etc.
1D laser scanner	Symbol SE955 (Optional)
Optical resolution	4Mil min width
Roll	100%UPC (5in. ±35°)
Pitch Angle	100%UPC (5in. ±65°)
Skew tolerance	100%UPC (5in., ±50°)
Ambient light	10000ft.candles (107640 lux)
Scan repetition rate	scan 104 per second(±)12 times (two-way)
Scan angle	47°±35°(standard)/ 35°±3° (nar
Barcode type	UPC/EAN, Code128, Code39, C 1, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS

2D Imager Scanner

1D CMOS laser scanner	Symbol SE4500
Sensor resolution	752 (horizontal) * 480 (perpendicular) pixel (gray level)
Roll tolerance	
Pitch tolerance	
Skew tolerance	±60°
Ambient light	9000ft.candles/96900 lu
Aiming LED (VLD)	655nm ± 10nm
Illumination element	650nm ± 5nm
Field of view	40° horizontal, 25°
Barcode type	PDF417, MicroPDF417, Comp TLC-39, Datamatrix, QR code, Micro QR code, Aztec, MaxiCode; Postal Codes: US PostNet, US Planet, UK Postal, Australian Postal, Japan Postal Dutch Postal (KIX)
Decode ranges	SR Focus 5 mil Code 39 100% UPC/ENA 1.6 6.7 mil PDF417

CAMERA

Resolution	5.0MP
Focus	automatic focus

GPS

GPS	low energy GPS chip
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RFID

HF	
Frequency	
Protocol	ISO14443A/B, ISO15693 (O
Distance	0

UHF

Operating	840~960 MHz (customizable)
CN	840~845 MHz
CN	920~925 MHz
EU	865~868 MHz (ETSI EN 302 208)
Protocol	EPC C1 GEN2/ISO18000-6C
Read range up to	2.0 m
Antenna	right-hand polarization
Power	1W(+10dBm ~ +3

WLAN

Protocol	IEEE802.11 b/g;
Data Rates	802.11b max 11Mbps; 802.11g max 54Mbps
Antenna	internal
Freq range	802.11b-2.4GHz; 802.11g-2.4GHz
Security	WPA2, PEAP, TLS, WPA2-PSK, WPA-PSK, WPA2/AES

WWAN

Frequency	GSM/GPRS (850,900,1800,1900MHz)
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WPAN

Bluetooth	Class 2.0, 5~10 m
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PERIPHERALS AND ACCESSORIES

Cradle (Docking station)	For charging device (with standard & extended battery) and spare battery simultaneously.
Ports including	USB port for sync with PC(set USB as OTG, it recognizes external devices like U disk) RS-232 port can be connected with main USB port for printer debugging DC port for charging device and spare battery
Pistol Grip with battery	Reduces user fatigue in barcode scanning and RFID tag reading intensive applications and extend battery life
Printer	Supports mobile thermal printer with WLAN or Bluetooth or RS232 interfaces

SERVICE AGREEMENT

Chainway provides one year free warranty for faulty workmanship and defective materials of Chainway products from the date of supply, and lifetime tech support service.

CUSTOMER SERVICE

We offer ONLINE technical support service including technical consulting, remote operation assistance, etc. If the issues cannot be resolved online, we will forward the issues to our R&D department and we will offer a solution in 24 hours.



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STALLION GROUP
INDIA | UAE | QATAR | OMAN

STALLION SYSTEMS AND SOLUTIONS PVT. LTD.

Ph: 0484 2314592 Email : marketing@stallionindia.com

Branches : Mumbai | Delhi | Bangalore | Ahmedabad | Hyderabad | Chennai | Kolkatta | Kochi
Pune | Silvasa | Chandigarh | Trivandrum | Alleppey | Thrissur | Calicut | Kannur

MIDDLE EAST

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