

# CHAINWAY C5000U

INDUSTRIAL-CLASS HANDHELD DATA TERMINAL

C5000U is equipped UHF module with stable performance and compatible with many countries' frequencies. The product adopts dextrorotation polarized PCB antenna, supports various frequency ranges and +10dBm~+30dBm powers and is compatible with different UHF labels produced by manufacturers such as NXP.



# Parameters of C5000U

## Physical Characteristics

Dimensions	18.65 cm * 7.5 cm * 4.8 cm
Weight	400g (included battery and scanners)
Display	Color 3.2"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, MicroSD/TF
Interfaces	USB2.0; RS-232
Battery	Rechargeable li-ion polymer battery 3.7V/4000mAh
Audio	0.5 watt
Keypad	numeric, full A-Z alphanumeric (Optional)

## Performance Characteristics

CPU	Samsung ARM920T@533MHz
RAM	128MB
Memory	1GB NAND FLASH, MicroSD/TF slot, maximum 32G

## User Environment

Operating Temp	-25°C to 50°C
Storage Temp	-25°C to 70°C
Humidity	5%RH to 95%RH non-condensing
Drop Spec	1.5 meter drop to concrete, 6 drops per 6 sides over operating temperature range
Tumble Spec	1,000 0.5m tumbles
Sealing	IP64

## Programming Environment

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

## 1D Linear Scanner (Optional)

1D CCD scanner	Symbol SE655 (Optional)
Optical resolution	5Mil min width
Roll tolerance	±25°
Pitch tolerance	±65°
Skew tolerance	±30°
Ambient light	0ft.candles-10000ft.candles
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 Angele	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° (narrow-angle)
Barcode type	UPC/EAN, Code128, Code39, Code93, Code11, Interleaved 2 of 5, Discrete 2 of 5, Chinese 2 of 5, Codabar, MSI, RSS

## 2D Imager Scanner (Optional)

CMOS laser scanner	Symbol SE4500
Sensor resolution	752 (horizontal) * 480 (perpendicular) pixel (gray level)
Roll tolerance	360°
Pitch tolerance	±60°
Skew tolerance	±60°
Ambient light	9000ft.candles/96900 lux (lightless)
Aiming LED (VLD)	655nm ± 10nm
Illumination element	650nm ± 5nm
Field of view	40° horizontal, 25° perpendicular

Barcode type	PDF417, MicroPDF417, Composite, RSS, 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)
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Decode ranges			
	SR Focus	Near	Far
	5 mil Code 39	2.1 in./53 mm.	7.5 in./191 mm.
	100% UPC/ENA	1.6 in./41 mm.	15.5 in./394 mm.
	6.7 mil PDF417	3.4 in./86 mm.	7.1 in./180 mm.

## Camera (Optional)

3.2MP camera 2048(H)\*1536(V), QXGA

## RFID (Optional)

## 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 (3dbi)
Power	1W (+10dBm ~ +30dBm)

## WIFI

Protocol	IEEE802.11 b/g
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## GPRS (Optional)

Frequency	GSM/GPRS (850,900,1800,1900MHz) 85.61/42.8bps
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## Bluetooth (Optional)

Class 2.0+EDR, 3~5 m

## GPS (Optional)

GPS	low energy GPS chip
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## Regulatory

EMC	ETSI EN 301 489-1, ETSI EN 301 489-3, ETSI EN 301 489-17, EN 55022, EN 55024
Health and Safety	EN 62311, EN 62209-2, EN 60950-1, EN 62133
Wireless and RF	ETSI EN 300 328, ETSI EN 300 330-1, ETSI EN 300 330-2, ETSI EN 300 440-1, ETSI EN 300 440-2

## Standard accessories

Power adapter	1
Data Cable	1
MicroSD(TF) card	1

## Optional accessories

Cradle (docking station)	
Single unit charger (battery charger)	