



CHAINWAY®

C4000-X2 Reader System

Ideal for Live-stock Management and Traceability

The C4000 X2 reader system is your new designed Android solution to meet the desire of more powerful yet flexible handheld computer, with its combo system of powerful RFID LF reader chip plus Dual antennas, Your operation to long range and longer range reading is on wish.

Improvement from previous system with paper card

Previous system was using paper card as ID, the information of cow, sheep are written by hand, Efficiency is low, error-rate is high, It is insufficient to store or query, Traceability is bad.
The new reader system is turning this into digital way.

Benefits from future system with RFID technology

Higher efficiency, Lower error-rate, Complete and accurate traceability, Very long cycle of data storage, Full history records.

Solution details

The RFID tag is to index universal ID for each animal, and input detailed information of each (genus, birth day, feeding mode, fodder proportion, etc.)

The Handheld RFID Data Terminal is to read data of each animal daily, covering the following information, feeding status, anti-epidemic, transportation, slaughter; then to upload data to server, contributing to a complete traceability system.

VISIT www.chainway.net/product/productlist/4000 for more

C4000-X2 Reader System

Datasheet

ANTENNA SYSTEMS

LV stick antenna

Power	600 - 680mW
Q value	90
Typical range	18cm

Build-in antenna

Power	510 - 570mW
Q value	50
Typical range	12cm

MODULES

RFID module

RFID Low frequency	134.2kHz (FDX-B + HDX)
Protocol	ISO11784/5

Barcode reader

Scan major 2D and 1D barcodes

MAIN UNIT

CPU	Cortex-A7 1.3GHz Quad Core
RAM	1GB
FLASH	build-in 4GB flash
MICROSD max.	Max. 32GB expansion
KEYPAD	3 function buttons, 3 side buttons, 4 TP touch key-press buttons
DISPLAY	4" WVGA (480 × 800) TFT-LCD, capacitive dual touch
AUDIO	0.5Watt speaker, build-in microphone

PHYSICAL

Dimensions

LV stick antenna	960mm(L) * 380mm(D)
main unit	185mm(L) * 87mm(W) * 151mm(H)

Weights

LV stick antenna	299g
main unit	561g (includes batteries)

IO INTERFACES

Socket for LV stick antenna
USB Micro-B for data
UART for debugging
5.2mm DC socket
Socket for cradle and snap-ons

BATTERY SYSTEM

Main battery	rechargeable li-ion battery 3200mAh
Pistol battery	rechargeable li-ion battery 5200mAh

PROGRAMMING ENVIRONMENT

Operating system	Android 4.4.2
SDK	Chainway software development kit
Language	Java
Tool	eclipse

USER ENVIRONMENT

Operating Temp.	-10 to 50°C / 14 to 122°F
age Temp.	-40 to 70°C / -40 to 158°F
Humidity	5% - 95%RH (Non-condensing)
Tumble Spec.	1,000times, 0.5m/1.64ft tumbles, rolling by six contact surface, meets and exceeds MIL-STD810G

Main unit Sealing / Drop Spec.	IP64; 1.2 meter drop to concrete, 6 drops per 6 sides over operating temperature range
ESD	8KV VDC air discharge 4KV VDC direct discharge

COMMUNICATION

WLAN	Wi-Fi IEEE802.11b/g/n
WWAN&Voice	WCDMA/HSDPA/HSPA+ (850/1900MHz /2100MHz) GSM/GPRS/EDGE (850/900/1800/1900MHz) GSM/GPRS/EDGE (850/900/1800/1900MHz)
WPAN	Bluetooth specification v2.1+EDR Bluetooth specification v3.0+HS compliance Bluetooth v4.0 Low Energy (LE)
GPS	GPS (Embedded A-GPS)

COMPONENTS



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