

S007 Animal Farm Ranger™ System



Handheld interrogator I003

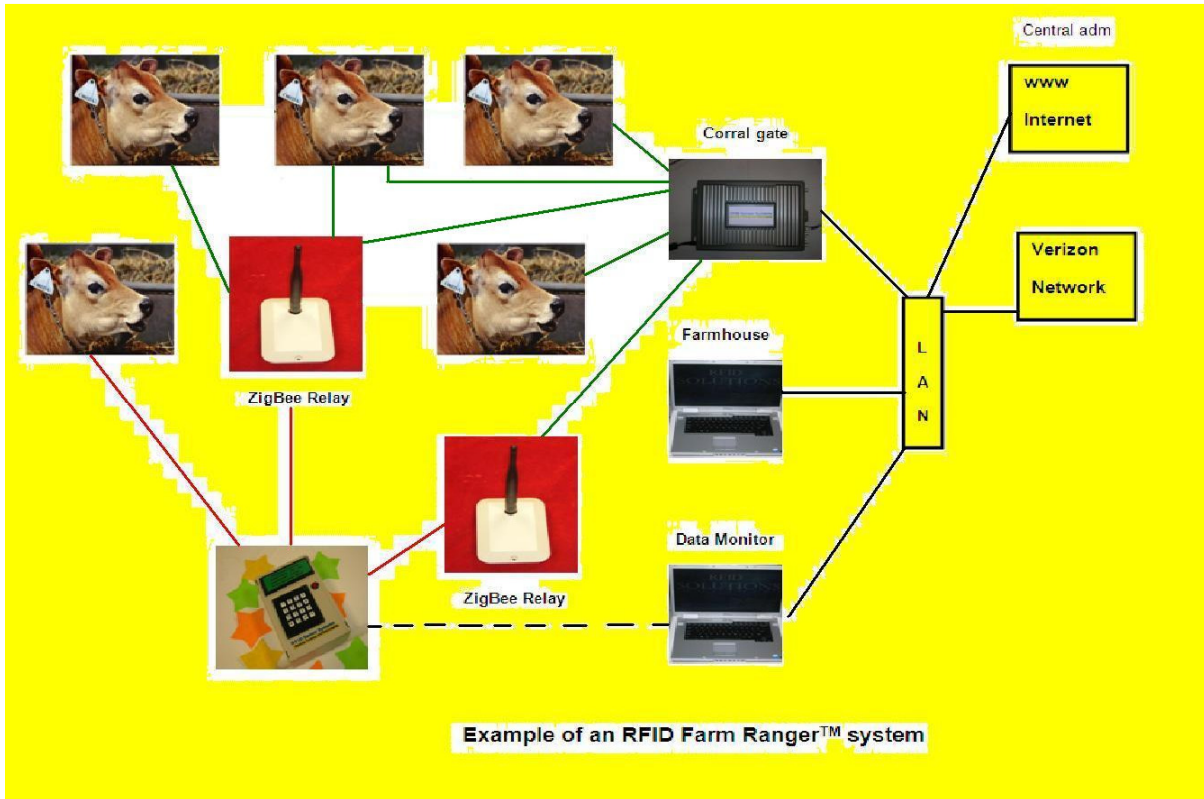
The RFID Farm Ranger™ System combines the advantages of low cost passive animal ear tags with active tags for longer range. These tags operate within active RFID mesh networks for animal tag readout up to 2 miles, local interrogation with handheld units, and an interface into a local Wi-Fi router, and further interfacing into the internet. In a simplified system a stationary reader interfaces directly through a PC into the internet for monitoring animals passing through a selected gate. We configure the system to meet the requirements of small farm units up to large ranches. This system uses passive Gen2 class1 tags with the longest range available in the industry. The overall system cost is greatly reduced by the use of our proprietary readers and interrogators that are configured to do just the job you want.



T080 – Cattle tag



ZigBee Relay Units Z001



Example of an RFID Farm Ranger™ system

Passive tags

Passive Cattle Ranger T080:

Read range with stationary reader I001

Read range with handheld reader I003

General purpose metal mount tag T00x

Stationary tag reader I001:

Power source: 110/220 VAC

compatible ISO 18000-6c

Certification compatible FCC Part 15 emissions

Handheld tag reader I003:

Rechargeable batteries

Use time w/o charging

Power down time between charging

Certified compatible ISO 18000-6c

Certification for FCC Part 15 emissions

Handheld tag reader I004:

Rechargeable batteries

Full power use time for ZigBee between charging

Power down time between charging

ZigBee network range

Use time w/o recharging Gen 2

Certification for FCC Part 15 emissions

Network Relay units Z001

Active unit spacing

Local capability to read Gen 2 tags

Rechargeable batteries

Use time for ZigBee between charging

Certified compatible ISO 18000-6c

Certification for FCC Part 15 emissions

Typical up to 80 ft

Typical up to 40 ft

Typical up to 100ft

Power source: Certification

Yes

Yes

Yes

typical 3 hours

estimated 2 years

certified reader IC

in process

NimH

typically 2 years

Estimated 2 years

Up to 2 miles

8 hours

Certified reader IC In process

up to 2 miles open range each unit

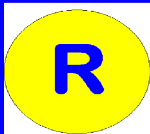
No

Standard

Typically 2 years

Certified reader IC

In process



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