

# Vehicular Communication System

## CATTRO™ FOR RAIL



### DIGITAL ETHERNET DATA COMMUNICATION BETWEEN UNDERGROUND MOBILE MACHINERY AND SURFACE COMPUTER NETWORKS

#### HIGHLIGHTS

- Our cast aluminum enclosure protects your equipment in the harshest mining environment
- Up to 220 vehicles can be monitored on a single network with the master/slave capacity
- The web-based configuration center uses a standard web browser to configure the system whether locally or remotely

#### FEATURES

- 800 MHz LMR band propagates better than VHF or UHF in confined spaces and the 806–869 MHz bandwidth supports multiple mobile channels/ multiple networks
- Frequency and space diversity ensure uninterrupted data transmissions in mine tunnels
- The large buffer memory means you'll never lose data even when the communication is interrupted
- Dual radio channels provide 100% coverage in a tunnel
- Linux operating system-based
- TCP/IP protocols with Ethernet and Serial ports ensures compatibility with every data communication technologies keeps software packages up to date
- Tri-color status LEDs facilitates troubleshooting the system

#### MODELS

1005	VCS Master Radio modem, 800MHz
1006	VCS Slave Radio modem, 800MHz, Fixed, one radio
1007	VCS Slave Radio modem, 800MHz, Mobile, one radio
1007E	VCS Slave Radio modem, 800MHz, Mobile, one radio, Ethernet only
1008	VCS Slave Radio modem, 800MHz, Mobile, dual radios
1008E	VCS Slave Radio modem, 800MHz, Mobile, dual radios, Ethernet only

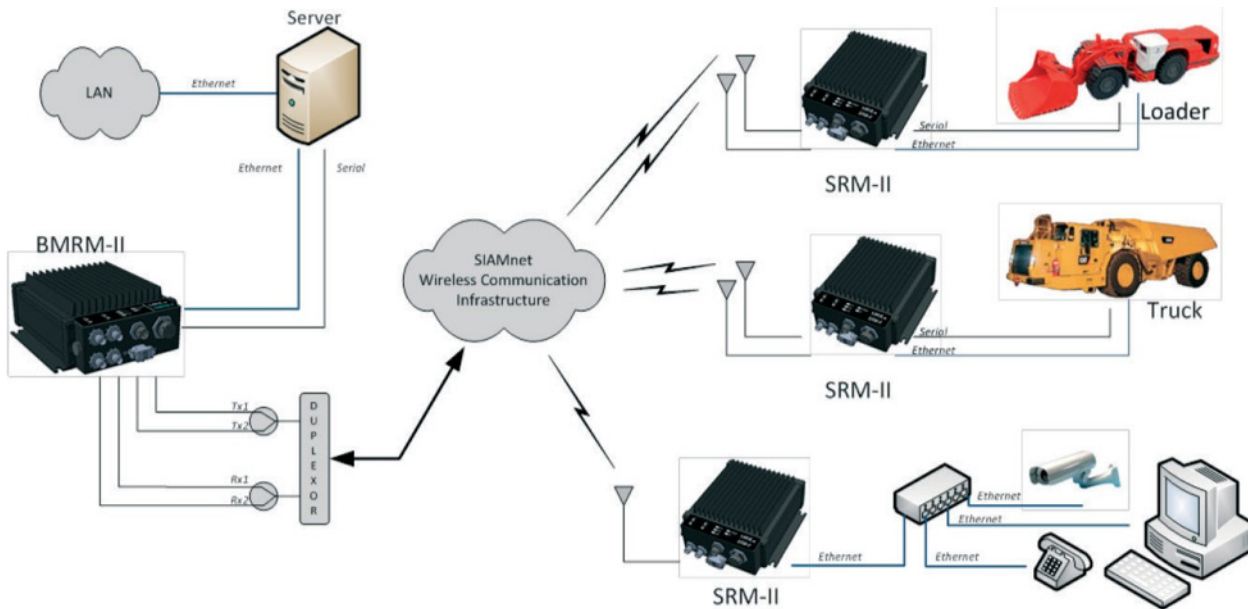
#### APPLICATIONS

- Daily Operations  
Help workers communicate flawlessly with each other's and boost productivity
- Two-Way Voice  
Discover conventional two-way voice communication to link underground and surface workers
- Dispatch  
Get support for loaders and trucks at automated loading and dumping points
- Data Networks  
Explore LAN: an application that extends into underground mines to provide critical communication for underground operators
- WIFI  
Enable people or machinery to communicate over networks without the need for a wired connection





## Vehicular Communication System



## TECHNICAL DATA AND SPECIFICATIONS

### ELECTRICAL DATA

Electrical power	9-36 VDC
RF power	1 watt
RF sensitivity	-85 dBm
Operating band	800 MHz LMR
Channel bandwidth	150 KHz
Termination	TNC female
Over the air data rates	90 kbps

### MECHANICAL DATA

Dimensions	9" x 7.75" x 3.75" (228 x 197 x 95 mm)
Environmental	IP66/67
Weight	5.5lbs / 2.5 kg

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