



CERBERUS

SIL2 Conveyance Communication



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TECOM

SAFE LONG DISTANCE DATA TRANSMISSION

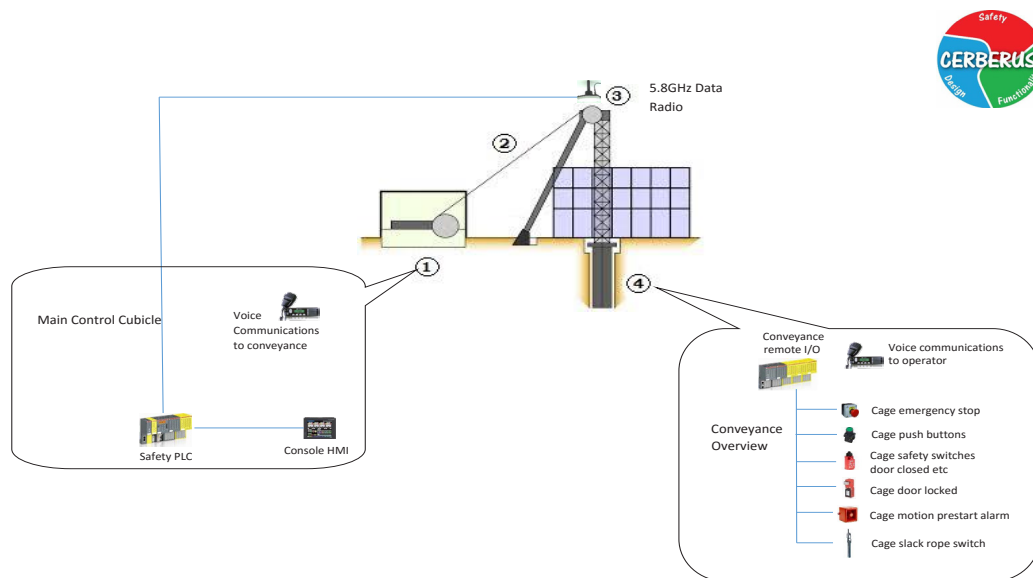
TECOM'S Conveyance Management System CERBERUS is a powerful SIL3 PLC based data acquisition device, designed to interface with numerous different industry standard systems that support discrete SIL2 digital and analog I/O.

Data gathered from these systems can either be transferred to a central monitoring facility or other remote locations via a designated 5.8 GHz telemetry channel.

CERBERUS is capable of interfacing with several devices through SIL3 remote digital and analog I/O blocks simultaneously.

A 5.8 GHz wireless data transfer between the various devices is achieved via SIL3 Ethernet concepts over a fixed point aerial network.

This provides a robust and safe medium of sending safety related data over long distances, using the communication medium that suits the application.



TYPICAL APPLICATIONS:

- Mine Shaft Winders
 - « Single Drum
 - « Double Drum
 - « Koepe Drum
- Shaft Sinking Winders

FEATURES:

- SIL2 approved in accordance with AS61508
- Supports remote isolation
- Compliance with DII EES-008
- Supports video channels
- Supports voice channels
- Extensive diagnostics

COMPLETE CONVEYANCE COMMUNICATION SOLUTION

CERBERUS is designed as a dedicated conveyance controller for the mining industry.

To meet their requirements, speed of operation is extremely critical. Therefore CERBERUS's internal 5.8 GHz data radios have been designed to operate over directional antennas, mounted in the head frame and in the conveyance.

Cerberus consists of the following main components:

- The intelligent 5.8 GHz radio modem
- The safety PLC modules
- The remote safety I/O blocks
- UHF mobile voice radios (450 - 470 MHz band)



CERBERUS is equipped with 24 digital inputs and 16 digital outputs. Other configurations of I/O are available on request.

The state (high or low) of each input and output is signalled by the HMI, located at the main console. This HMI allows the operator to confirm the correct status of all inputs and outputs, associated with the conveyance.

CERBERUS is designed for operation up to 60 ° C. The temperature status of the module or the controllers is evaluated by the CPU module in the controller.

COMMUNICATION MEDIUM:

- SIL3 integrity I/O data transfer for critical signals via:
 - « Ethernet
 - « Copper
 - « Radio

FEATURES:

- 24 digital inputs
- 16 digital outputs
- Human machine interface HMI
- Low power consumption
- Robust design and construction
- In-built data logging
- ACMA compliant



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