



GSM-R ETCS data radio

SDR-200

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The European Train Control System (ETCS) is being introduced to provide Europe with a standardised signaling system, which will enable trains to operate easily across national boundaries.

GSM-R is the radio bearer for ETCS data communications between the train and the trackside infrastructure.

The Siemens ETCS data radio provides an important link for the transmission of movement authorities from the Radio Block Centre (RBC) to the train, where an in-cab display allows the driver to control the train without reference to line-side signals. The radio is a compact unit designed for ease of installation with ETCS equipment from several major suppliers.

All the main components within the Siemens ETCS data radio are fully duplicated to provide the necessary high availability required for such an important application.



The ETCS data radio acts as a bearer for the transfer of ETCS data over the GSM-R network. It provides two RS422 data interfaces, one to each European Vital Computer.

The ETCS data radio comprises a radio enclosure, containing two GSM-R radio transceivers and associated DC/DC converter power supply units together with an interface board, with two GSM-R antennas, one per radio transceiver.

No driver equipment is provided or required for the ETCS data radio.

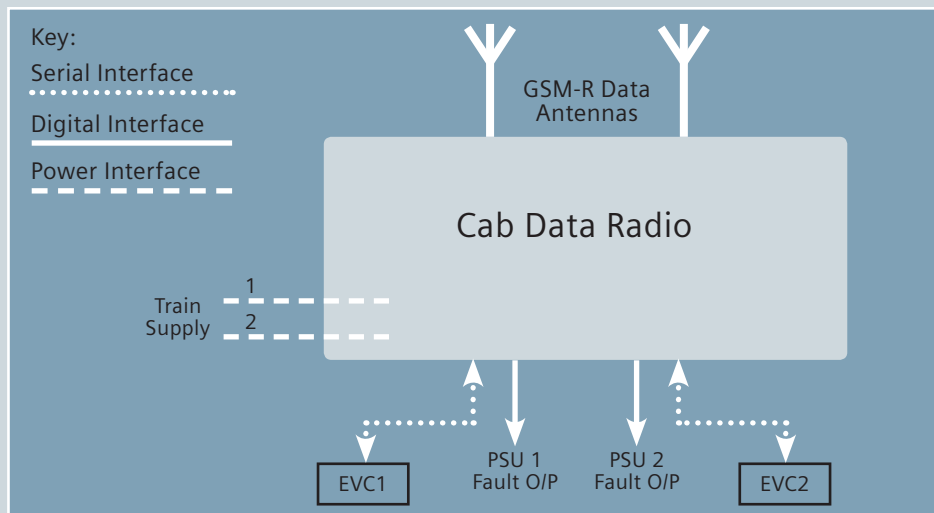
The interface board provides protection circuits for the train interfaces together

with a switchover facility that allows the data radio to operate from one of the internal PSUs, should the other PSU suffer a failure. A digital output circuit is provided which will signal failure of a PSU to external equipment.

Physical Description

The ETCS data radio SDR-200 is housed in a strong aluminium case designed to cope with the on-train environment.

The ETCS data radio is a stand-alone unit capable of being rack mounted or located in the roof section or mounted on a bulkhead in the train.



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