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TELEFUNKEN RACOMS supplies broadband radio communication solution for metro line 9 in Barcelona

Together with Spanish partner and main contractor EMTE Sistemas, TELEFUNKEN RACOMS has secured a contract in Barcelona to supply a high-performance radio communication system for digital data transmission from metro trains.

This contract marks a further milestone in the railway communication market so far characterized by radio concepts of a more traditional nature. The order value totals several millions of Euros.

The contract relates to the supply, installation and commissioning of a broadband, failsafe TRainCom[®] MT radio communication system to enable the simultaneous, reliable transmission of multiple data communication services.

In more specific terms, besides delivering passenger information data and operational control information, this project is to also provide the capability for real-time video transmissions from the traveling trains to a control center. Due to its high transmission efficiency, the system also offers reserves for future new applications.

In the first construction phase now ordered, initially about 20 kilometers of track and 16 trains of metro line 9 in Barcelona will be equipped with the TRainCom[®] MT radio system.

The entire metro line 9 project, however, encompasses about 100 kilometers of track. Most of the route is underground and after its completion it will probably be the longest metro line in Europe. The route forms the central link between the metro lines already existing in Barcelona and also connects the international airport to the metro network. In addition to its fully automatic, driverless operation, the line has other special features – one of which is that the trains will not travel side by side in the conventional way, but will often travel one above the other in a tunnel tube.

The ordered radio system will be completed ahead of when metro line 9 is scheduled to go into service at the end of 2009 and will make a significant contribution to safe railway operation.

(303 words)

The company

The specialist for communication solutions headquartered in Ulm, Germany, has its roots in TELEFUNKEN, the former global brand. Today the portfolio of TELEFUNKEN Radio Communication Systems GmbH & Co. KG (TELEFUNKEN RACOMS) covers a wide spectrum of radio systems and communication solutions for military and commercial applications.

The company has created a system family of integrated radio communication solutions for an array of railway applications, which goes by the name of TRainCom[®]. The TRainCom[®] systems are based on the radio technology already successfully deployed in the high-speed Transrapid Maglev train. All the core components of the TRainCom[®] radio system solutions are developed and made in-house at TELEFUNKEN RACOMS.

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