DriveSWing DRS-10

ATO over ETCS – trackside

- **Interface between ATO onboard (e.g. DriveSWing AVV-10) and traffic control systems (e.g. TrafficSWing DOZ-1 and TrafficSWing GTN)**
- **Interoperable solution meeting UNISIG / Shift2Rail specifications for GoA2 automation level (possible extension for GoA4)**
- **Combined operation of trains equipped with DriveSWing AVV-10 and ERTMS / ETCS**
- **Suitable for passenger trains (high speed, long-distance, intercity, suburban and regional)**
- **Suitable for freight trains**
- **Increased safety and traffic flow**
- **Increased capacity of railway lines**
- **Decreased demand on dispatcher – increased traffic prediction, continuous updating of traffic situation**
- **Compatibility with ETCS L3**

GENERAL DESCRIPTION

DriveSWing DRS-10 (further DRS-10) is unmanned system designed for increasing the level of automation of railway operation.

The DRS-10 provides the data transfer between traffic control systems and ATO onboard. DRS-10 flexibly updates the data for the ATO onboard (e.g. DriveSWing AVV-10) upon change of traffic situation.

DRS-10 is installed together with other technologies inside buildings.

BASIC TECHNICAL DESCRIPTION

DRS-10 is interoperable system according to TSI specifications (2022).

DRS-10 is connected with centralized traffic control CTC / TOC (e.g. TrafficSWing DOZ-1 + TrafficSWing GTN) in data way and provides actual route map and timetable for ATO onboard (e.g. DriveSWing AVV-10).

Data transmission is provided via GSM-R network.

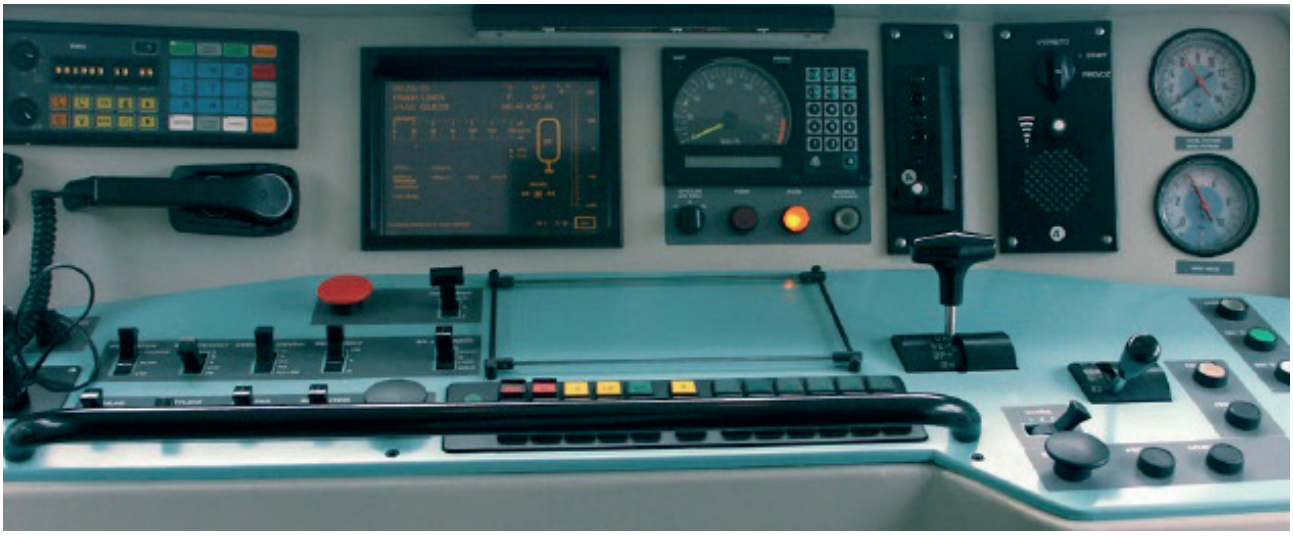
ATO onboard (e.g. DriveSWing AVV-10) calculates and regulates optimum train movement profile on the basis of data received from the DRS-10 and in accordance with restrictions received from ETCS onboard.

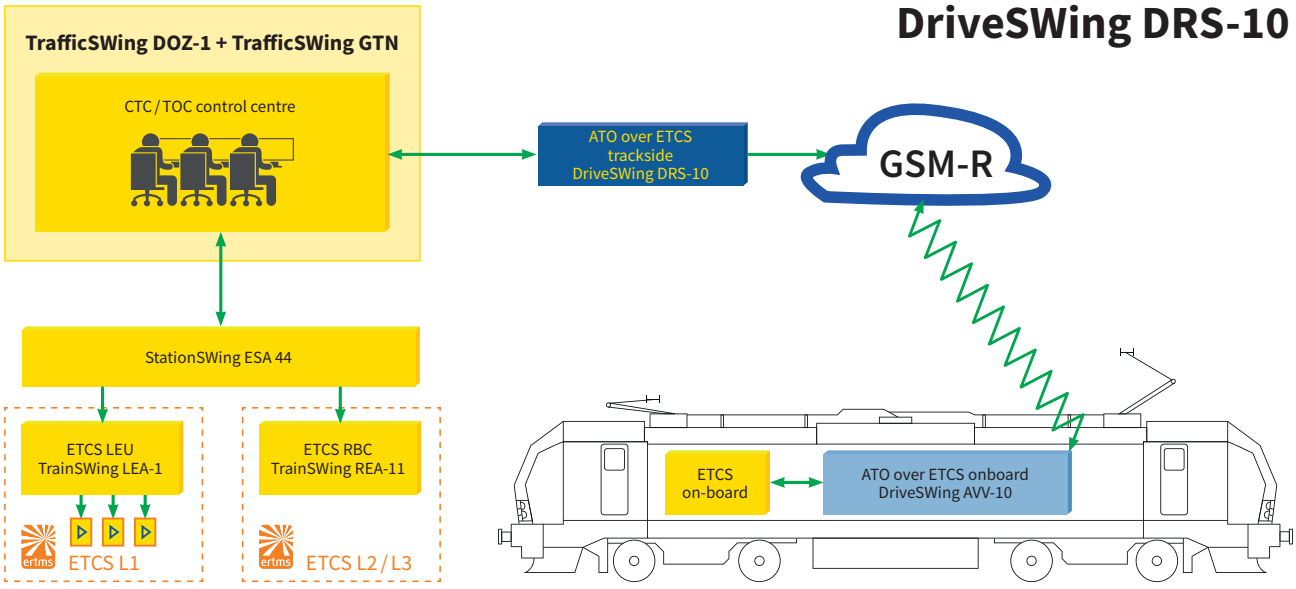
ATO onboard (DriveSWing AVV-10) has been proven by commercial operation for more than 30 years on main and regional lines and in more than 300 railway vehicles.

www.azd.cz

BASIC TECHNICAL PARAMETERS

Power supply	AC 230 V ± 10 %, 50 Hz
Temperature range	climatic category T1 according to EN 50 125-3
Humidity	to 80 %
EMC compliance	EN 50121-4, EN 61000-4-2, EN 61000-4-3, EN 61000-4-4, EN 61000-4-5, EN 61000-4-6, EN 61000-6-4
Service life	minimum 25 years





www.azd.cz