



Colibri – Product catalogue

InnoTrans 2026



Colibri Platform

The modular, scalable foundation for digital applications on board



A connecting Platform

Colibri connects vehicle IT, networking, train-to-ground communication and back-office systems into a unified platform. Based on this foundation, modular product components for passenger services, security, diagnostics and operations management can be flexibly combined.

Platform Components

Central computer, network, service software and vehicle interfaces

Train-to-Ground Communication

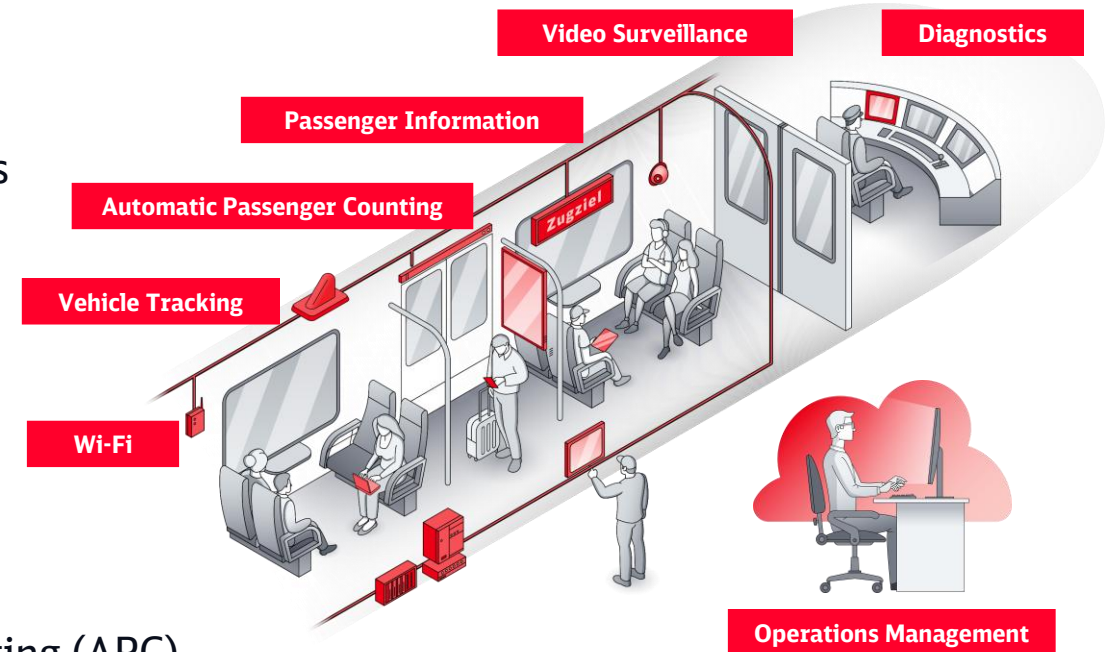
Data exchange between vehicles and back-office systems

Back-Office Systems

Remote control system, reporting and ticketing

Product Modules

Wi-Fi, Video Surveillance, Diagnostics, Automatic Passenger Counting (APC), Vehicle Tracking, Passenger Information (PIS), Operations Management



Colibri Passenger Wi-Fi (Colibri-W)

Reliable onboard internet with digital services and usage analytics



Functions & Services

- Passenger Wi-Fi with multiple SSIDs
- Customer portal and content for digital passenger services
- Multi-carrier / multi-SIM connectivity, optionally with 5G support
- Load balancing, multi-user Wi-Fi (MU-MIMO) and fast roaming for stable connections
- Remote monitoring, software updates and Wi-Fi usage analytics

Description

Colibri-W combines access points, cellular modems, external antennas and platform services into a self-contained onboard Wi-Fi system. Operators can flexibly integrate portals, content and Wi-Fi usage data to enhance passenger services.



Your Benefits

- Enhanced passenger comfort through reliable Wi-Fi
- Digital services available via portal and content platform
- Wi-Fi usage data for operations and quality monitoring

Colibri Video Surveillance (Colibri-V)

Secure video data, remote access and faster incident resolution



Functions & Services

- Onboard video recording with encrypted storage
- Event-based recording for relevant situations and evidence collection
- Live access for control center and security operations
- Online video retrieval without removing storage media
- Remote access and service operation to reduce on-site effort

Description

Colibri-V extends the vehicle IT platform with video recording, event management and secure video data provisioning. Authorized personnel can view relevant footage live from inside the vehicle or retrieve recordings remotely without removing storage media.



Your Benefits

- Improved security through rapid access to events
- Secure evidence without removing storage media
- Reduced effort for video evaluation and data retrieval

Colibri Diagnostic (Colibri-D)

Vehicle health monitoring on site and remotely



Functions & Services

- Captures software versions, process values and diagnostic events
- Processes internal and external diagnostic data as well as transmitted vehicle and operational data
- Diagnostic display (HMI) in the vehicle for local transparency
- Back-office evaluation via the Remote Control System (RCS) including status monitoring, ticketing and reporting
- Data foundation for maintenance and rapid troubleshooting

Description

Colibri-D makes vehicle diagnostic data available both locally and remotely. From the diagnostic HMI to remote analysis within the RCS, the solution supports operations, ticketing, reporting and maintenance through structured condition information.



Your Benefits

- Vehicle status information for operations and control center
- Faster troubleshooting through structured diagnostics
- Better data foundation for maintenance, ticketing & reporting

Colibri Automatic Passenger Counting (APC)

Reliable occupancy data for planning and revenue allocation

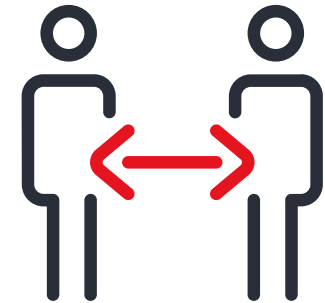


Functions & Services

- Counts boarding and alighting passengers at each stop and determines occupancy levels
- Generates passenger counting and occupancy datasets for backend systems
- Foundation for revenue allocation, capacity planning and utilization analysis
- Supports passenger flow management, passenger information and quality reporting
- Extendable with object detection, e.g. bicycles, wheelchairs and strollers

Description

Colibri-APC records passenger movements and current occupancy levels and provides structured utilization data to back-office systems. Operators gain a reliable basis for revenue allocation, capacity planning and service quality management.



Your Benefits

- Reliable occupancy data for planning and quality management
- Fair revenue allocation based on trustworthy data
- Improved passenger flow management and information

Colibri Passenger Information (PIS)

Real-time information for journey guidance and passenger support



Functions & Services

- Real-time passenger information on interior and exterior displays
- Continuous communication of routes, destinations, stops and connections
- Automatic and manual announcements through onboard passenger announcement systems
- Integration of existing components and PIS interfaces
- PIS operator interface and third-party integration for flexible system integration

Description

Colibri-PIS consolidates timetable, forecast, position and backend data and distributes it consistently to displays, monitors, audio systems and operator interfaces. Operators can modernize existing vehicle systems through the integration of high-performance components and standardized interfaces, ensuring passengers always receive up-to-date real-time information.



Your Benefits

- Better passenger orientation and fewer inquiries
- Consistent information across all channels
- Higher service quality through real-time data and connection information

Colibri Operations Management

Reliable service operations with SLA, QoS, reporting and remote support



Functions & Services

- Monitors availability, performance and incidents during operation
- 24/7 or 8/5 operating models defined service level agreements (SLAs)
- Remote control system, ticketing, reporting and escalation management from a single source
- Remote troubleshooting, software and configuration management
- Mobile maintenance as part of Quality of Service (QoS) ensuring availability and performance
- Operations support incl. SIM management and reporting
- Support from system production and vehicle installation through to decommissioning

Description

Colibri Operations Management provides monitoring, incident assessment, escalation management and reporting for ongoing service operations. Operators receive transparent SLA and QoS metrics, structured ticketing and remote support to ensure system availability and service quality.



Your Benefits

- Reliable operation through proactive monitoring
- Transparent SLA and QoS performance indicators
- Reduced effort through remote support