



FOR THE AUSTRIAN FEDERAL RAILWAYS (ÖBB)

# Mireo ÖBB – the universal multiple-unit train

The Mireo® is the commuter train that intelligently combines all the requirements of operators, purchasers, and passengers. With the Mireo, Siemens engineers have created an innovative platform for commuter and regional transport of the highest caliber – energy-efficient, flexible, quick to deliver, and profitable at the same time.

The Mireo ÖBB in its long-distance variant is the first vehicle type resulting from the framework agreement between Siemens Mobility and the Austrian Federal Railways (ÖBB). This agreement encompasses the delivery of up to 540 Mireo trains. A total of 100 trains in three different variants have already been ordered and are currently in production.

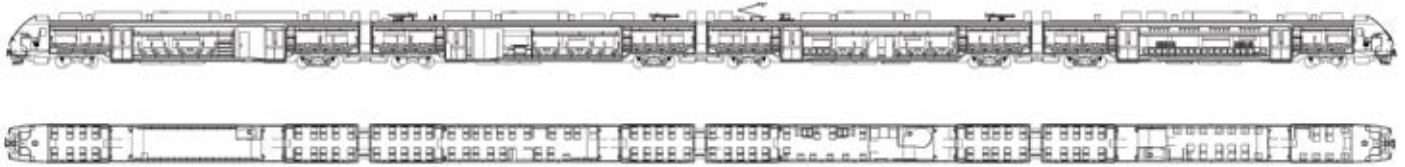
The Mireo trains are characterized by their cross-border operability and high availability.

The addition of a single-car concept and wider car bodies has maximized the passenger space. The focus is clearly on passenger comfort.

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# SIEMENS

## Mireo ÖBB



### Interior design

The attractive design and thoughtfully planned interior create a spacious feel with high comfort and safety. This is achieved through onboard internet, family areas, real-time passenger information systems, and security surveillance systems (CCTV). The cantilevered seating makes it easy and inexpensive to clean the passenger compartment.

### Energy savings

The Mireo is designed to be particularly energy-efficient. This is achieved through its self-supporting, welded lightweight structure using aluminum integral construction. Improved aerodynamics, component energy efficiency, and intelligent onboard power management further reduce resource consumption, emissions, and noise.

### Project details

- Countries of operation: AT / DE / IT / SLO with seven national languages – expandable to include SK / CZ / HU
- ETCS Baseline 4.0, SCMT, PZB – expandable to include Mirel

- Passenger compartment in modern and forward-looking long-distance design:
  - Seat and bicycle reservation system
  - Space for 14 bicycles
  - Power outlets (230 V and USB) at every seat
  - Generous seat spacing in both first and second class
  - Vending machines with counter
  - Accessible area for passengers with limited mobility
  - Family area with children's play corner – "the train within the train"
  - Multifunctional areas (spacious bicycle zone)
- CO<sub>2</sub>-controlled air conditioning system using a natural refrigerant
- High-frequency window panes for improved mobile phone reception
- 1 x universal restroom, 2 x standard restrooms
- Inside-bearing standard bogies from the SF7500 family
- Railigent X connectivity, including over-the-air software updates

| Technical specifications | Mireo ÖBB (106 m, 4-car set)                  |
|--------------------------|-----------------------------------------------|
| Wheel arrangement        | Bo' 2' 2' 2' 2' Bo' 2' Bo'                    |
| Track gauge              | 1,435 mm                                      |
| Maximum speed            | 160 km/h                                      |
| Traction power           | Up to 2,880 kW                                |
| Starting acceleration    | Up to 1.0 m/s <sup>2</sup>                    |
| Power supply             | 15/25 kV AC / 3 kV DC                         |
| Length (over coupling)   | 106,048 mm                                    |
| Entrance height          | 610 mm                                        |
| Entrance areas           | 6 on each side of the train                   |
| Passenger capacity       | 257 seats                                     |
| Crashworthiness          | TSI- and EN 15227-compliant                   |
| Fire protection          | According to EN 45545 fire suppression system |

### Published by Siemens Mobility GmbH

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