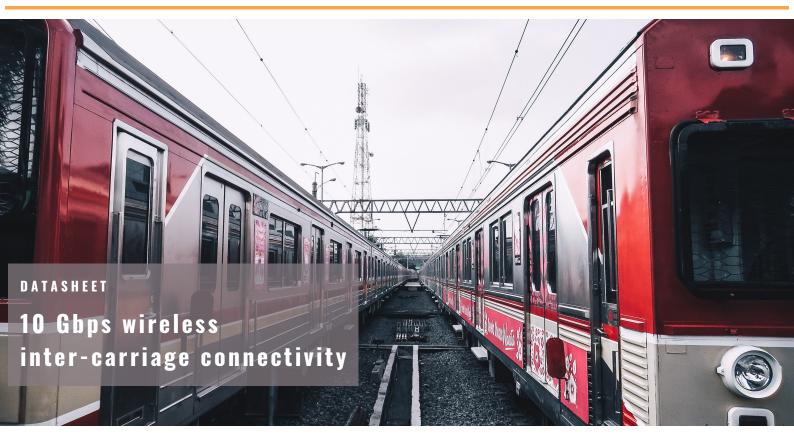
MobiBridge 10G Radio





CONNECT TRAIN CARRIAGES, VESSELS AND PUBLIC TRANSPORT VEHICLES

ELVA-1 MobiBridge 10G is all-weather universal radio link for true 10 Gigabit connectivity between train carriages, vessels to in-port broadband Internet access, public transport to the Internet at stops.

MobiBridge radios support 7 sub-bands within 57-to-71 GHz V-band license free frequency spectrum to comply with national regulation requirements worldwide. Each radio has a built-in electronically scanned antenna to search for other side radios and establishes the connection automatically.



DYNAMIC 10 GBPS CARRIAGE COMPOSITION

For railways operators, ELVA-1 MobiBridge 10G provides the ability to dynamically create an end-to-end 10 gigabit network across the train. This is convenient for often carriage recomposition, changing the number of carriages on the train, depending on the route demand or seasonal load.

If a train is equipped with a data storage, at the stations it is possible to upload and download videos and other large files that passengers exchange with friends or colleagues.

KEY FEATURES:

- Throughput up to 10 Gbps
- Full duplex mode
- · License free spectrum
- 7 sub-bands @2000 MHz
- Distance range up to 500 m
- Universal design for rail transport, vessels and buses
- Automatic setup and configuration
- Easy to install

WORLD'S FIRST 10GE INTER-CARRIAGE CONNECTIVITY





The world's first 10 Gbps per channel, ELVA-1 MobiBridge is designed for 5G complimentary wireless communication between carriages. For data upload & download on a station, it allows up to 10 m distance between the ground and train radios at stable 10GE connectivity.

The solution easily adapts for similar applications like communication of the vessel with radio at the pier, wideband connection of public transport at stops.

MobiBridge radio is provided to customers for testing in a prototype box. The final case is manufactured according to the customer's requirements.



MobiBridge 10G Specifications

Model

Max Throughput
Max Channel Bandwidths
Modulation

Adaptive rate

Max Range depending on modulation

Ethernet Interface

Antenna

Ethernet

Power Supply

Power Connection

Operational Temperature

Humidity

Radio unit size

MobiBridge 10G

10Gbps Full duplex

2000 MHz

QAM-128 to BPSK

Hitless adaptive bandwidth, coding and modulation

10 m @QAM128 / 500 m @BPSK

1×SFP+ 10GBase-LR/SR, service 1xCopper 1000/100Base-Tx

Built-in to radio unit

Transparent for Ethernet services, Flow Control 802.3x, PTP

PoE 20W

IP-65 [optional IP-68]

-50 C to +60 C / -58 F to 140 F

Up to 99%

16x12x3 cm (Depends on customer specifications)

