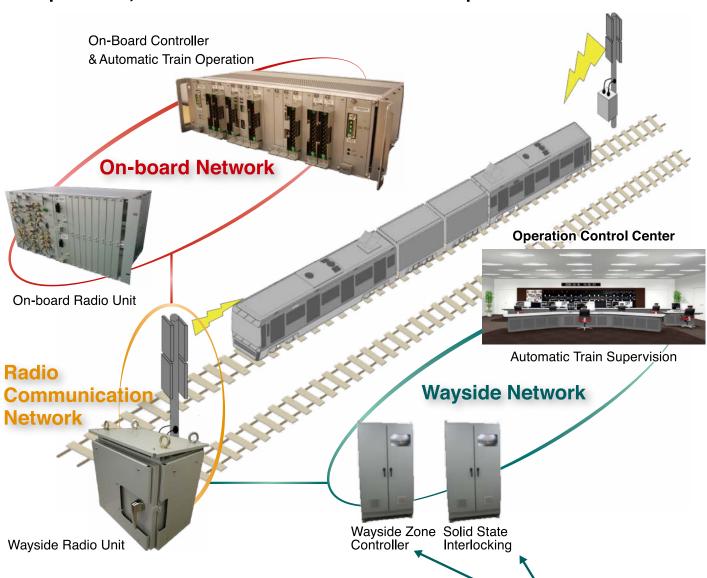


# CBTC (Communication Based Train Control)

The CBTC system of Mitsubishi Electric is the foundation of safe and stable transportation, and it also achieves advanced train operation and control.



# **Achievement of Efficient Train Traffic**

High-density train operation via moving block section control

## Reduction of Wayside Equipment

Cost reduction by reducing wayside signals and other equipment

# Adoption of ISM Band Radio Communication



Vital unit for wayside

## **CBTC** (Communication Based Train Control)

#### **Features**

## 1 Energy Saving

Mitsubishi Electric's economy-driving ATO effectively reduces energy consumption\*\*1 without changing running time between stations.

\*\*1 18% reduction on a revenue line

#### 2 Highly-Reliable Wireless Transmission

Mitsubishi Electric's CBTC radio system with advanced wireless transmission technologies guarantees highly available train-wayside communication for urban areas\*2.

※2 Compatible with high-speed trains at up to 160km/h

#### **3** System Safety

The On-Board Controller and Wayside Zone Controller were certified as SIL4\*3 by TÜV-SÜD (Germany) in 2014.

3 SIL:Safety Integrity Level compliant with EN50126, EN50128, EN50129 and EN50159

# **Power Equipment Specifications**

Product	On-Board Controller	Wayside Zone Controller / Solid State Interlocking
Power source	110V DC	24V DC
Dimension	W442mm X D220mm X H132.5mm	W432mm X D267mm X H265.4mm
Installation position	On-board	Relay room

## **Environment**

Product	On-Board Controller	Wayside Zone Controller / Solid State Interlocking
Temperature range	-25 to +55 °C	0 to +45 °C
Dielectric strength	1200V AC (per minute)	-
Electromagnetic compatibility	EN50121-4	EN50121-3-2
Shock resistance	IEC / EN 61373	-

#### MITSUBISHI ELECTRIC CORPORATION

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