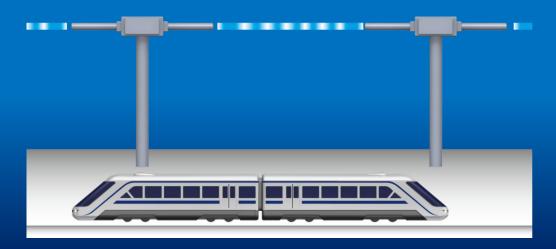
Simple-structure and high-Performance ATC by Radio Communication System

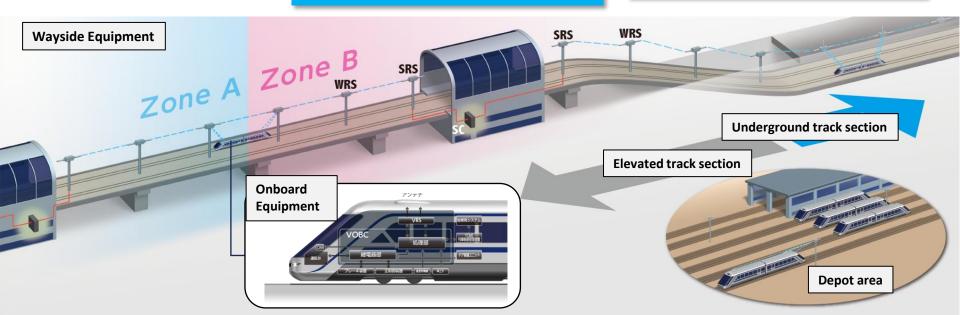


CBTC by Nippon Signal: Trusted technology with global achievements. Offering high basic performance and excellent scalability.

Continuous train position detection and control via wireless communication

System can be introduced gradually by sections within a line, not all at once. (Mixed operation of existing vehicles and SPARCS-equipped vehicles is possible.)

Compared to fixed block systems using track circuits, moving block enables faster recovery from delays.



Traits

NIPPON Signal's CBTC, which is a trusted technology and has a global track record.

Provides high basic performance and scalability.

Wireless Network

Implements essential functions required for wireless networks

TDMA

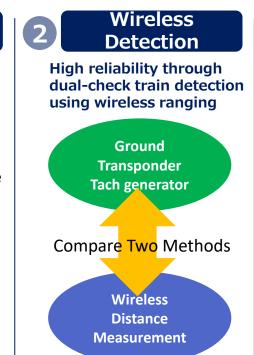
Ensures real-time performance

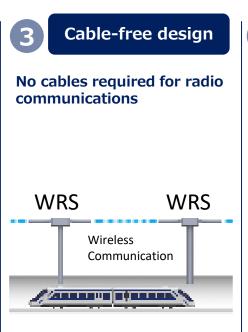
FDMA

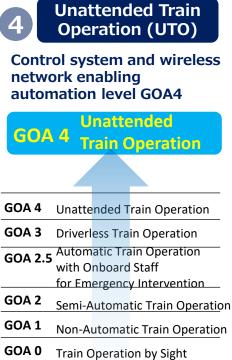
avoids frequency conflicts

CDMA

maintains confidentiality







Implementation Track Record

We have global achievements tailored to various railway companies, with different automation levels, operating distances, and train configurations.

XUnder Maintenance



Route	Distance	Train Sets	Automati on Level
Jakarta MRT	15.7km	6 cars × 16 sets (future 8-car)	GOA2
Gimpo Urban Railway	23.6km	2 cars × 26 sets	GOA4
Ahmedabad Metro	18.52km + 20.74km	3 cars × 32 sets (future 6-car)	GOA3
Dhaka Line 6	19.89km	6 cars × 24 sets	GOA2
*Dehli Metro Mazenta Line(Extension)	28.9km	6 cars × 24 sets	GOA4
※Ahmedabad Metro (Extension)	18.52km	6 cars × 30 sets	GOA3
%Cairo Metro Line 4	18.8km	8 cars × 23 sets	GOA2
※Manilla Metro	27km	8 cars × 30 sets (Future: to increase to 10 cars)	GOA2
	41.9km	2 cars × 36 sets	GOA4
%Tokyo Metro Oedo Line	40.7km	8 cars × 66 sets	GOA2

Please also check the video display.



Delhi Metro Magenta Line (Extension)

