

MULTIPLEX COMMUNICATION SYSTEM

Gateway ECU

- The gateway ECU contains the three types of communication circuits (CAN, BEAN, and AVC-LAN) whose communication protocols differ.

Communication specification

	CAN	BEAN	AVC-LAN
Communication Speed	500kbps	10kbps	17.8kbps
Communication Wire	Twisted-pair Wire	AV Single Wire	Twisted-pair Wire
Drive Type	Differential Voltage Drive	Single Wire Voltage Drive	Differential Voltage Drive
Length of data	1~8Byte(Variable)	1~11Byte(Variable)	0~32Byte(Variable)

- The gateway ECU receives data from the buses and transmits it to other buses. While doing so, it converts the data to suit the communication protocols used by the receiving buses.
- The gateway ECU provides a function to act as a relay for the communication of the diagnosis system* [ISO 9141] and the communication of the buses. The high-level diagnosis system supports the ECUs to ensure superior serviceability.

❖REFERENCE❖

*Serial communication used for diagnosis data communication between a hand-held tester diagnosis tool and the onboard ECUs, in compliance with the ISO (International Organization for Standardization).

