APPLICATION & DIAGNOSTICS

Bridging EtherCAT and CAN Networks with GCAN-GT-8221-CAN

How an EtherCAT master and CAN devices exchange data through GCAN-GT-8221-CAN in a bidirectional cycle.

The figure below shows the communication path described in this note.

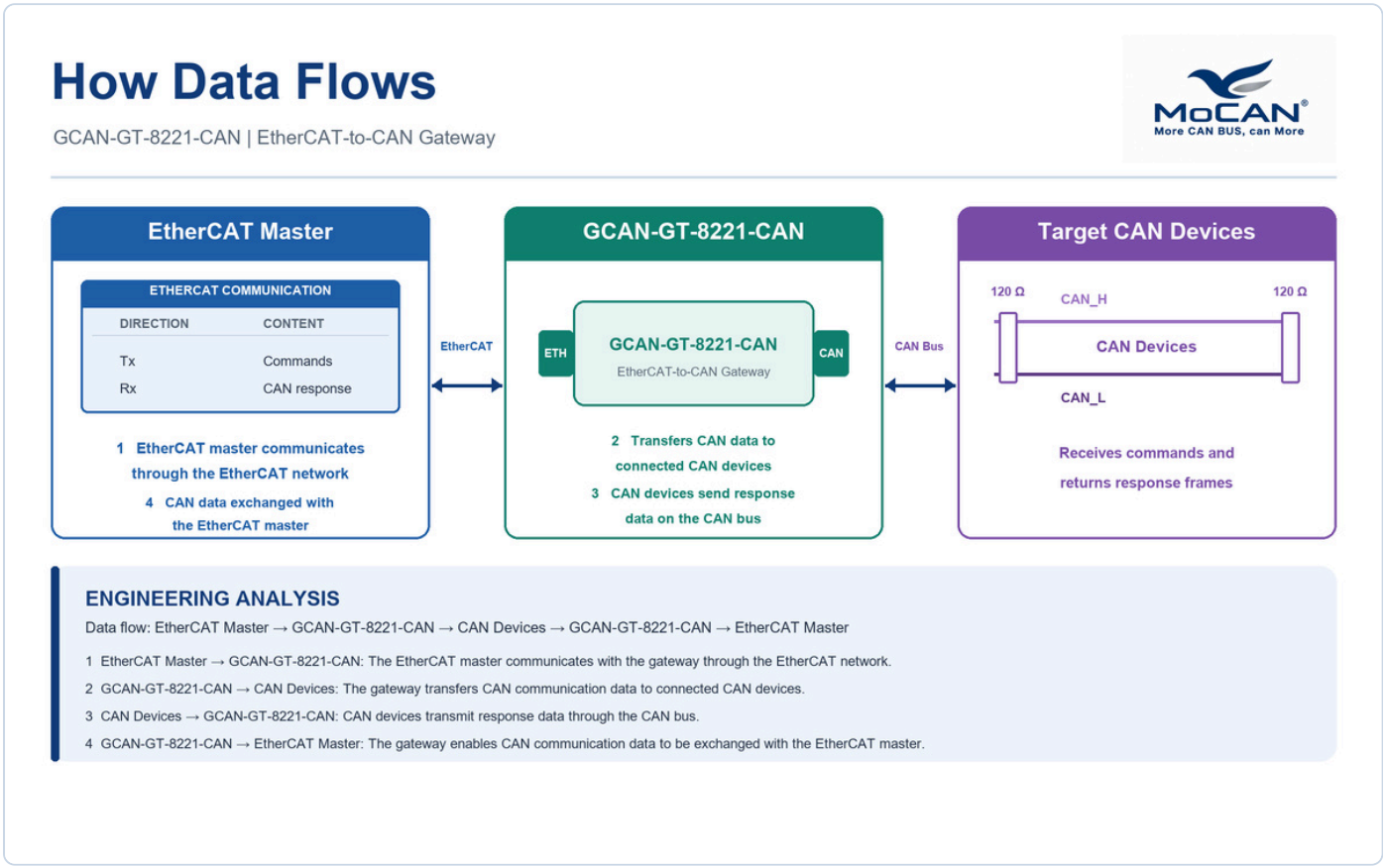


Figure 1 — How Data Flows: GCAN-GT-8221-CAN exchanges communication data between an EtherCAT master and CAN devices.

How Data Flows

1. EtherCAT Master → GCAN-GT-8221-CAN: The EtherCAT master communicates with the gateway through the EtherCAT network.
2. GCAN-GT-8221-CAN → CAN Devices: The gateway transfers CAN communication data to connected CAN devices.
3. CAN Devices → GCAN-GT-8221-CAN: CAN devices transmit response data through the CAN bus.

4 GCAN-GT-8221-CAN → EtherCAT Master: The gateway enables CAN communication data to be exchanged with the EtherCAT master.

> **Data flow:** EtherCAT Master → GCAN-GT-8221-CAN → CAN Devices → GCAN-GT-8221-CAN → EtherCAT Master