APPLICATION & DIAGNOSTICS

Bridging EtherCAT and CANopen Networks with GCAN-GT-8221-COM

How an EtherCAT master and CANopen slave devices exchange process data through GCAN-GT-8221-COM.

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

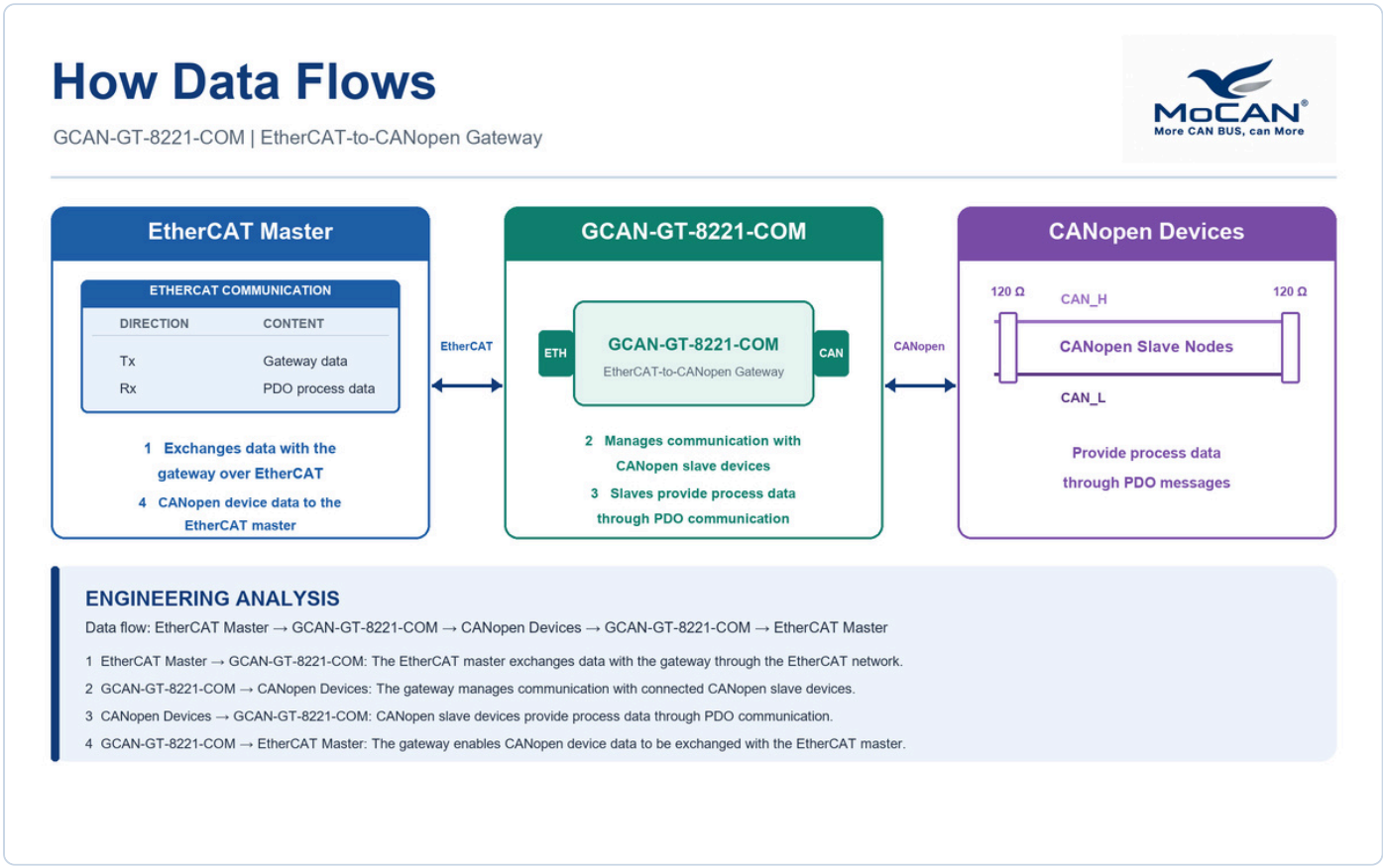

Figure 1 — How Data Flows: GCAN-GT-8221-COM exchanges CANopen device data with an EtherCAT master over the EtherCAT network.

How Data Flows

1. EtherCAT Master → GCAN-GT-8221-COM: The EtherCAT master exchanges data with the gateway through the EtherCAT network.
2. GCAN-GT-8221-COM → CANopen Devices: The gateway manages communication with connected CANopen slave devices.

3 CANopen Devices → GCAN-GT-8221-COM: CANopen slave devices provide process data through PDO communication.

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

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