# Gwentech
## E M B E D D E D

# GT1026 Datasheet
# Overview

The Gwentech CAN bus·USB adapter brings CAN bus data to mobile devices

## Android® Tablets and Phones

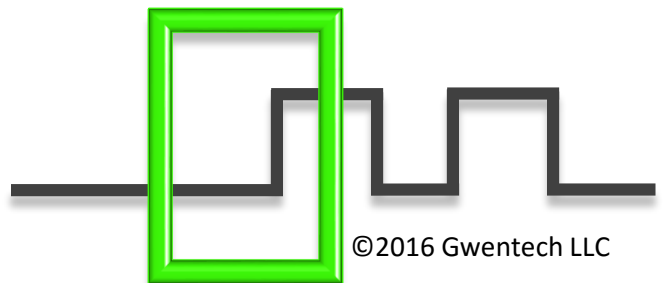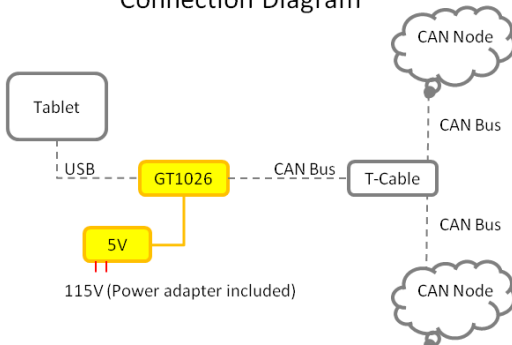Bidirectional communication from an Android application to a CAN system.

- •USB

- •Isolated to 1kV

- •Charges the tablet or phone during use

- •Standard D-Sub 9 pin connector (in accordance with CiA® 102)

- •CAN Compliant to specification 2.0A and 2.0B

- •Extended operating temperature range of -40 to 85°C

- •Timestamps with 125 uS resolution

- •Email CAN data directly from application

- •For use on Android® devices (3.1 and higher)
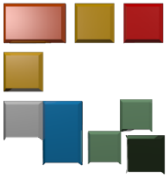
- •API available for developing custom apps

USB

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## Connection Diagram

Tablet — USB — GT1026 — CAN Bus — T-Cable — CAN Bus — CAN Node

5V

115V (Power adapter included)

CAN Bus — CAN Node

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# GT1026 Datasheet
## Connections

## Power Supply Input Connection (Vcc)

⊖—⊂—⊕

| Center Pin | Vcc | |
|---|---|---|
| Shell | Ground | |
| Connection Type: Barrel Power Jack | | |
| Connector: PJ-002AH-SMT-TR | | |

## CAN Bus Network

## USB

## USB Connection

| Connection Type: USB Type A Receptacle | |
|---|---|
| Connector: AU-Y1006-2-R | |

## CAN Bus Network Connection

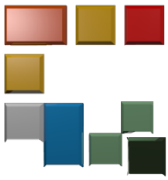| Pin | Function | |
|---|---|---|
| 1 | (no connection) | |
| 2 | CAN_L | |
| 3 | CAN Ground | |
| 4 | (no connection) | |
| 5 | CAN_H | |
| 6 | CAN Ground | |
| 7 | CAN_H | |
| 8 | 120 ohm terminating resistor | |
| 9 | (no connection) | |

Connection Type: D-Sub Plug, Male pins
Connector: TE Connectivity 5747840-3

Note: To include the terminating resistor, connect pin 8 to CAN_H
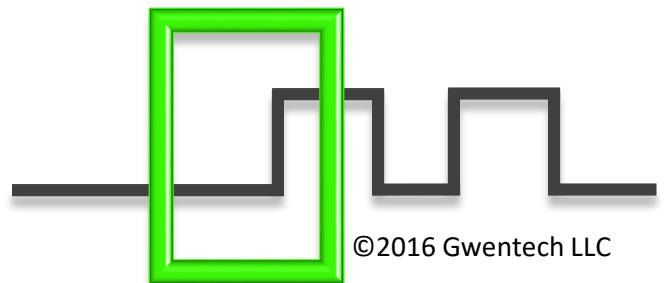
## 5VDC Power Supply Included
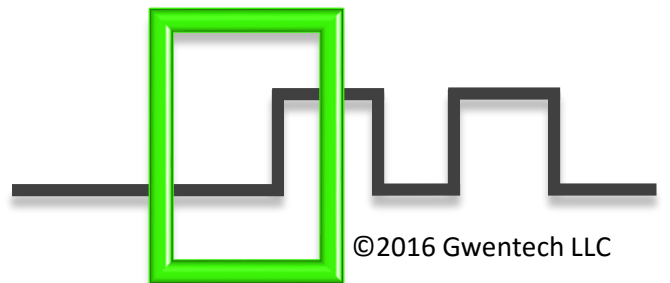
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# GT1026 Datasheet
# Electrical and Mechanical Characteristics

| Parameter | Characteristic | Note | Min | Nominal | Max | Units |
|-----------|----------------|------|-----|---------|-----|-------|
| $V_{cc}$ | Supply voltage | | 4.6 | 5 | 5.4 | VDC |
| $I_{cc}$ | Supply current | | 50 | 100 | 250 | mA |
| $I_{OUT}$ | Charge current to USB connected device | | | | 1000 | mA |
| $f_{BIT}$ | Bit frequency | | 125 | | 1000 | kHz |
| $t_{operating}$ | Operating temperature | | -40 | | +85 | °C |
| $t_{storage}$ | Storage temperature | | -40 | | +85 | °C |
| $V_{iso}$ | Isolation Voltage | 1 minute | 1 | | | kV |
| $R_{iso}$ | Insulation Resistance | at 500VDC | 100 | | | mΩ |
| $D_w$ | Width | | | 42 | | mm |
| $D_H$ | Height | | | 23 | | mm |
| $D_L$ | Length | | | 81 | | mm |

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