Model: UT-6502

TCP/IP to 2-port CANBUS protocol converter

Datasheet
1. Overview

UT-6502 is a high performance CAN-bus communication converter integrating 2 CAN interfaces and 1 Ethernet interface. The converter supports 10M/100M Ethernet network and 5Kbps~1Mbps communication rate CAN-bus interconnection, which further extends the application range of CAN-bus and Ethernet. UT-6502 converter provides Web configuration interface, users can flexibly set the operation parameters of UT-6502 converter. Industrial grade high standard design; isolation between communication interface and system, with certain anti-interference and anti-surge capability, widely used in industrial control and data communication system.

2. Main functions and feature

- Realizes bidirectional data transmission between CAN-bus and fiber optic network
- Support CAN2.0 protocol
- Integrated 2-port CAN-bus communication interface, supporting 5Kbps-1Mbps custom rate
- Integrated 1-port 100M Ethernet interface
- Operating voltage: 12-36V DC
- Operating current: ≤150mA@12V
- Operating temperature: -40~85°C
- Storage temperature: -40~85°C
- Operating humidity: 5~95% (no condensing)
- Storage humidity: 5~95% (no condensing)
- Isolation voltage: 1000VDC
- Static protection: Air 8kV, contact 6kV
- Surge protection: Power port: 1.2/50us common mode 2kV, differential mode 1kV
  Network port: 10/700us common mode 2kV, differential mode 1kV
  CAN port: 600W

3. Indicator

- PWR: red, power indicator; long light when power supply is normal.
- RUN: green, system operation indicator; flashes when the system is running normally.
- T/R1: green, communication indicator; when CAN1 sends and receives data, the indicator is on and goes off when the transmission and reception are completed.
- T/R2: green, communication indicator; when CAN2 sends and receives data, the indicator is on and goes off when transmission and reception are completed.

4. Button Definition

Reset: button, press for 3 seconds to reset the system, press for 5 seconds to restore the device to factory setting
5. PIN Definition

1. Label silkscreen

![Label silkscreen diagram]

2. Terminal Pin Definition

![Terminal pin definition diagram]

<table>
<thead>
<tr>
<th>Pin No.</th>
<th>Pin name</th>
<th>Description</th>
<th>Pin No.</th>
<th>Pin name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>CAN1-H</td>
<td>CAN1-H signal connection terminal</td>
<td>5</td>
<td>CAN2-H</td>
<td>CAN2-H signal connection terminal</td>
</tr>
<tr>
<td>2</td>
<td>CAN1-L</td>
<td>CAN1-L signal connection terminal</td>
<td>6</td>
<td>CAN2-L</td>
<td>CAN2-L signal connection terminal</td>
</tr>
<tr>
<td>3</td>
<td>RES1+</td>
<td>CAN1 Matching resistor terminal I</td>
<td>7</td>
<td>RES2+</td>
<td>CAN2 Matching resistor terminal I</td>
</tr>
<tr>
<td>4</td>
<td>RES1-</td>
<td>CAN1 Matching resistor terminal II</td>
<td>8</td>
<td>RES2-</td>
<td>CAN2 Matching resistor terminal II</td>
</tr>
</tbody>
</table>

3. RJ45 Network Port Definition

![RJ45 network port diagram]

<table>
<thead>
<tr>
<th>RJ45</th>
<th>Definition</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>TX+</td>
<td>Transmission signal+</td>
</tr>
<tr>
<td>2</td>
<td>TX-</td>
<td>Transmission signal-</td>
</tr>
<tr>
<td>3</td>
<td>RX+</td>
<td>Receive+</td>
</tr>
<tr>
<td>6</td>
<td>RX-</td>
<td>Receive-</td>
</tr>
<tr>
<td>4,5,7,8</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>
6. Product View (Appearance)

6. Structure Dimensions