

CAN/UART Converter

Features

- Bridges CAN Bus and UART
- Embedded with high performance CAN transceiver CS8972
- Supports both CAN 2.0A and CAN 2.0B formats
- Can read all CAN Bus (ISO11898) signals, such as CANOpen and J1939
- Supports baud rates ranging from 10 kbps to 1 Mbps
- Allows for efficient developments
- Passes the BCI (ISO 11452-4), EFT (IEC 61000-4-4), and ESD (IEC61000-4-2) Level A test requirements

Product Specification

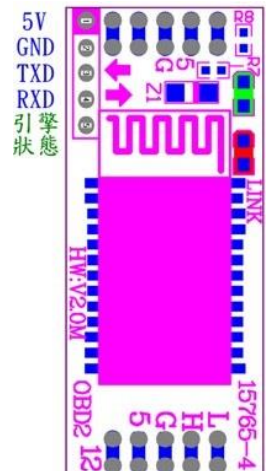
- Industrial automation
- Robot control
- Marine electronics
- Vehicle status management
- Driving behavior analysis
- Avionics
- Security monitoring
- Home automation

Power supply	DC 5V
Working Current	< 20mA (6.1mA @Sleep mode)
Baud Rate (CAN)	125K, 250K, 500K, 1Mbps (Allow user-defined CAN baud rate)
Baud Rate (UART)	9600, 19200, 38400, 57600, 115200, 230400... (Allow user-defined UART baud rate)
Support Protocol	CAN2.0A / CAN2.0B
Dimensions	46 x 20 x 8 (mm)
Weight	10g
Operation Temperature	-25 ~ +75°C

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Frame Format

- With respect to 2.0A and 2.0B, each data field is defined as follows:
 - **Start:** 1 byte
 - **Standard:** 1 byte
 - **Data Length Control/DLC:** 1 byte
 - **ID:** 8 bytes
 - **Data:** 16 bytes
 - **End of Field (EOF):** 2 bytes
- *Packet Length: 29 bytes/ ASCII Format



Converting CAN to UART: data frame and data format

	Start	Type	DLC	ID	Data	EOF
Bytes	1	1	1	8	16	2
CAN 2.0A	@	A	,	00000000 ~ 00007FFF	XX XX XX XX XX XX XX XX	\n \r
CAN 2.0B	@	B	,	00000000 ~ 1FFFFFFF	XX XX XX XX XX XX XX XX	\n \r

Converting UART to CAN: data frame and data format

	Start	Type	DLC	ID (Hex)	Data (Hex)	EOF
Bytes	1	1	1	8	16	2
CAN 2.0A	#	A	,	00000000 ~ 00007FFF	XX XX XX XX XX XX XX XX	\n \r
CAN 2.0B	#	B	,	00000000 ~ 1FFFFFFF	XX XX XX XX XX XX XX XX	\n \r