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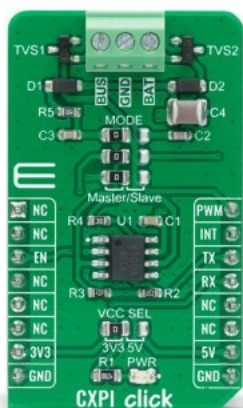www.mikroe.com

CXPI Click

PID: MIKROE-4336

CXPI Click is a compact add-on board that contains a transceiver that supports the next-generation automotive communication protocol. This board features the BD41000AFJ-C, a transceiver for the CXPI (Clock Extension Peripheral Interface) communication from Rohm Semiconductor. It operates from 7V to 18V external power supply, features easy switching between Master or Slave Mode, arbitration function that stops the data output upon detection of BUS data collision, and fail-safe functions that suspend the output data upon detection of under-voltage or temperature abnormality. This Click board™ is suitable for use in body control applications, including steering switch, AC, and instrument panel systems.

CXPI Click is supported by a mikroSDK compliant library, which includes functions that simplify software development. This Click board™ comes as a fully tested product, ready to be used on a system equipped with the mikroBUS™ socket.

Specifications

Type	CXPI
Applications	Can be used in body control applications, including steering switch, AC, and instrument panel systems.
On-board modules	CXPI Click is based on the BD41000AFJ-C, a transceiver for the Clock Extension Peripheral Interface (CXPI) communication from Rohm Semiconductor.
Key Features	CXPI standards qualified, transmission speed range from 5kbps to 20kbps, Master/Slave switching function, power saving function, data arbitration function, built-in UVLO and TDS function, and more.
Interface	PWM,UART
ClickID	No
Compatibility	mikroBUS
Click board size	M (42.9 x 25.4 mm)
Input Voltage	3.3V or 5V

Resources

mikroBUS™

mikroSDK

Click board™ Catalog

Click boards™

Downloads

CXPI click 2D and 3D files

BD41000AFJ-C datasheet

CXPI click schematic

CXPI click example on Libstock