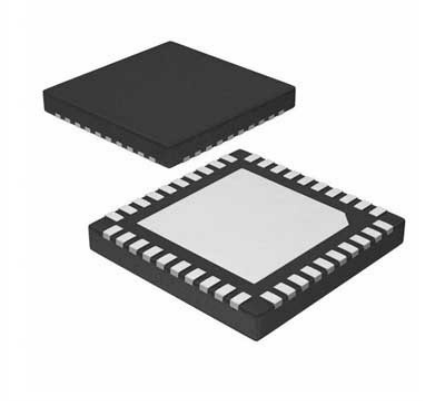


## KNX Transceiver for Twisted Pair Networks

Manufacturers	<a href="#">ON Semiconductor, LLC</a>
Package/Case	QFN-40
Product Type	Communication & Networking ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for NCN5121MNTWG or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

## General Description

KNX transceiver twisted pair networks (KNX TP1-256) can use NCN5121 as a receiver-transmitter Integrated Circuit (IC). NCN5121 embeds both PHY and MAC layers and handles the transmission and reception of data on the bus. It generates from the unregulated bus voltage stabilized voltages for its own power needs as well as to power external devices. NCN5121 assures safe coupling to and decoupling from the bus. Various monitors (bus voltage, current, temperature...) are made available through an analog pin.

## Features

KNX certified TP transceiver with embedded PHY and MAC layers (TP1-256) . 9600 Bauds communication speed.

NCN5121 can be used in any TP1-256 application

Two high efficient DC-DC converters + one linear regulator :- DC-DC1 : fixed 3.3 V- DC-DC2 : adjustable between 1.2 and 21 V- 20V linear regulator

Most KNX applications can directly be supplied from the NCN5121 removing the need for external costly power supply. Best in Class overall system efficiency.

Bus Current Consumption up to 24 mA

Suitable for vast majority of the KNX applications

Supervision of temperature, KNX bus voltage and current

Control and monitoring of power regulators

Buffering of sent data frames (extended frames supported)

Selectable UART/SPI interface and baud rate to host controller.

Comprehensive clocking system - Operates with industry standard low cost 16 MHz quartz - Can generate 8/16 MHz clock for the external MCU

Extended ambient temperature range -40 C to +105 C

## Related Products

## Application

ONSEMI