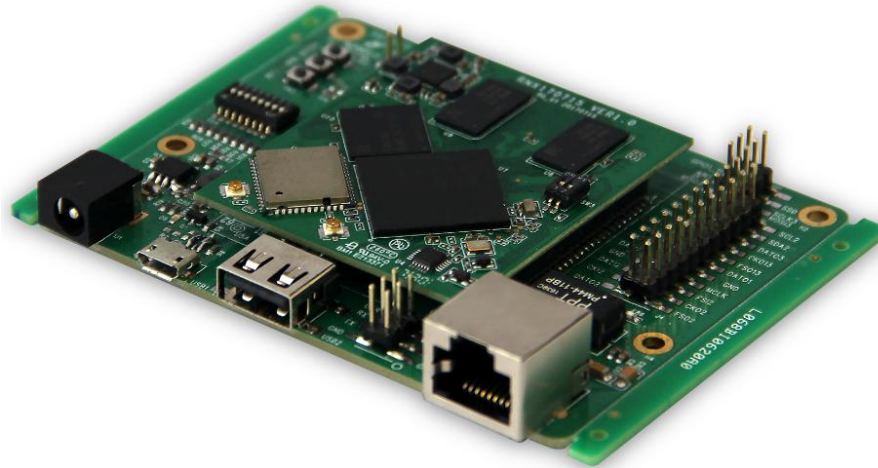# CBD-iMX7D-001 SPEC

Overview

The CBD-iMX7D-001 is a Consumer Edition board based on the i.MX7 series of SoCs. The i.MX 7Dual family of processors represents NXP's latest achievement in high-performance processing for low-power requirements with a high degree of functional integration. These processors are targeted towards the growing market of connected and portable devices.The i.MX 7Dual family of processors features advanced implementation of the ARM®Cortex®-A7 core, which operates at speeds of up to 1 GHz and 1.2 GHz, depending on the part number. The i.MX 7Dual family provides up to 32-bit DDR3/DDR3L/LPDDR2/LPDDR3-1066 memory interface and a number of other interfaces for connecting peripherals, such as WLAN, Bluetooth, GPS, displays, and camera sensors.

Specifications

Processor

i.MX7D, dual ARM Cortex-A7 at 1.2 GHz / Cortex-M4 at 200 MHz

Memory/Storage

powered by

Geniatech NXP

1GB LPDDR3

8GB eMMC 5.1

Connectivity

WLAN 802.11 a/b/g/n/ac, 2.4G/5GHz

Bluetooth 4.1

Ethernet 10/100M   x1

Expansion connector

USB 2.0 OTG   x 2

Reserved LCD interface

UART Bus Header   x2

SPI Bus Header   x1

I2C Bus Header   x2

Multichannel digital audio inputs and outputs (I2S, TDM, microphone array)

OS-support

Linux 4.9.88_2.0.0

Android 8.0/7.1

Windows 10 IoT

Power, Mechanical and Environmental

Power: +5V

Dimensions: 90mm*71mm

Operating Temp: -25°C to +70°C

RoHS and Reach compliant

powered by

Geniatech NXP