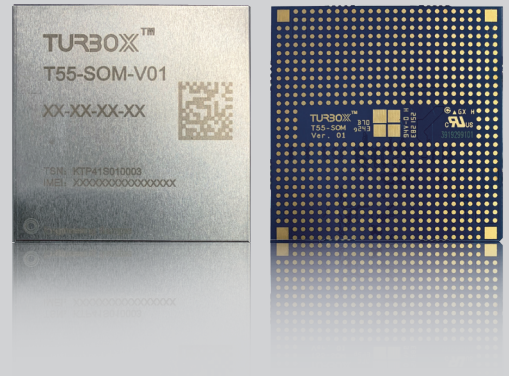


TURBO X T55 SOM

Designed to deliver breakthrough wireless performance.



The T55 SOM (System On Module) integrates Qualcomm's Snapdragon X55 5G modem-RF system offering virtually any combination of spectrum bands and modes: 5G mmWave and sub-6 GHz, standalone and non-standalone modes, TDD and FDD, spectrum sharing. The connection with AP is by the high speed interfaces including PCIe, USB 3 or Ethernet. It can help OEMs to bring bring blazing fast connected devices to global networks in nearly any form factor.

Applications



Industrial Control



Automated Guided Vehicle



Webcast



Gate way



VR/AR

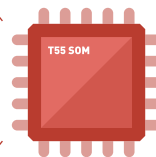
Features

Integrated 5G to 3G Support

High speed interface drivers for multi-OS

PCIe, USB 3.1 or 10Gb Ethernet drivers for Android/Windows/Linux

AT Command



T55 SOM

Shared antenna for LTE & Wi-Fi

5G Peak Download Speed: 7Gbps

Download MIMO: 4 x 4 MIMO

Global bands supported

Specifications

Specification	Category	Description
SDX55 Chipset	CPU	Arm Cortex-A7 up to 1.5 GHz
	Power Management	PMX55
	RF Transceiver	SDR865 + SMR526
Memory	DRAM/NAND	4Gb DDR4 + 4Gb Nand
Air Interface	5G NR	sub-6 GHz: n1,n2,n3,n5,n7,n8,n20,n28,n41,n66,n71,n77,n78,n79
	LTE	LTE-FDD: B1,B2,B3,B4,B5,B7,B8,B12,B13,B14,B17,B18,B19,B20, B25,B26,B27,B28,B29, B30,B32,B66,B71 LTE-TDD: B34,B38,B39,B40,B41,B42,B43,B48
	WCDMA	B1/B2/B3/B4/B5/B8/B9/B19
	CDMA	BC0,BC1,BC10
	GNSS	GPS/Beidou/GLONASS/Galileo
Data Rate	Peak Download Speed	5G NR: 7 Gbps , DL 4×4 MIMO
	Peak Upload Speed	5G NR: 3 Gbps
Connectivity and Peripheral Interface	BLSP	4x BLSP supports UART, SPI, and I2C
	UIM	2 x UIM
	PCI express	2 x Gen 3
	I2S	2 x I2S/PCM
	USB	1 x USB 3.1
Form Factor	T55-L	LGA Package: 42.5*42*2.6mm
	T55-M	M.2 Package: Ongoing
Power	Voltage Range	3.8 V to 4.2V
Temperature Range	Operation	-40°C to + 85°C
	Storage	-40°C to + 85°C
Software	Operating System	Linux

Dev Kit

Display

- SPI display

Peripheral

- PCIe M.2
- USB 3.1
- 10Gb Ethernet/1Gb Ethernet
- Expansion Connector:SPI, Uart,PWM

Audio

- WCD9341 Codec: Mic, Speaker, Headset

Connectivity

- Wi-Fi & BT
- UIM
- External Antenna: LTE,Wi-Fi,BT

