Thundercomm

TURBOX

T62 Cellular Module

Designed to deliver breakthrough wireless performance

The TurboX T62 Series Cellular Modules have integrated Qualcomm® Snapdragon™ SDX62 5G Modem-RF system and can support both 5G Sub-6 GHz and SA/NSA mode, making it backwards compatible with 4G/3G network.

Integrating 4 nm process of the SDX62 chipset, T62 series supports 3GPP Release 16 with superior performance and power efficiency. It can help ODM/OEM easily bring blazing fast connected devices to global market and perfectly apply to CPE/MIFI/Industrial routers, mission-critical applications (ambulance, security, robotics, AR/VR, livestreaming etc.) and remote healthtech (surgery, diagnostic, assistance, etc.) devices.

Applications

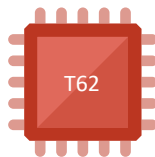| CPE/Router | Industrial Control | Automated Guided Vehicle | Webcast | VR/AR | Remote Healthtech |

Features

Integrated 5G to 3G Support

High speed interface drivers for multi-OS
PCIe, USB 3.1 or Ethernet drivers for Android/Windows/Linux

5G SA/NSA operation modes

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Global 5G spectrum bands supported

5G Peak Download Speed: 3.5Gbps
Download MIMO: 4 x 4 MIMO

OpenCPU with Comprehensive SDK

T62G-EA Specification

Specification	Category	T62G-EA
SDX62 Chipset	CPU	Arm Cortex-A7 up to 1.8 GHz
	DSP	Qualcomm® Hexagon™ DSP processor at up to 1.5 GHz
	Power Management	PMX65
	RF Transceiver	SDR735
Memory	DRAM/NAND	4Gb DDR4 + 4Gb NAND
Air Interface	5G NR	Sub-6GHz: n1,n3, n5, n7,n8,n20,n28,n38,n40,n41, n77, n78, n79
	LTE	B1/B3/B5/B7/B8/B18/B19/B20/B26/B28A/B28B/B32/B38/B40/B41/B42/B43
	WCDMA	B1/B5/B6/B8/B9/B19
Data Rate	Peak Download Speed	5G NR: 3.5Gbps DL 4x4 MIMO
	Peak Upload Speed	5G NR: 1.1Gbps 2x2 MIMO
Connectivity and Peripheral Interface	BLSP	4xBLSP supports UART, SPI, and I2S
	Antenna Connector	8x sub-6GHz
	UIM	2x USIM
	PCI express	1x Gen3 2-lane
	I2S	2x I2S/PCM
	USB	1x USB 3.1
Form Factor	LGA	LGA Package: 42.5mm x 45.5mm x2.6mm
Certification	Regulatory&Carrier	CCC"/SRRC"/KC "/JATE "/TELEC "/CE"/GCF"/LGU"+ /KT" /SKT"/NTT DOCOMO"/Softbank"/KDDI"
Weight		11.05 ± 0.2g (TBD)
Power	Voltage Range	3.0~4.35V, Typ. 3.8V
Temperature Range	Operation	-30°C ~ +75°C
	Storage	-40°C ~ +85°C
Software	Operating System	Linux, can work with Windows/Ubuntu/Android

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