

# MediaTek T300

Incredibly compact and ultra-efficient 5G RedCap IoT platform with integrated RF

## Applications

Replacing Cat-4 LTE connectivity as an embedded or an add-on module a wide variety of always-connected IoT applications such as

- Video security
- Logistics
- Industrial
- Mobility
- IoT edge devices

## Key Modem Technologies

- LTE & NR-FR1 (20MHz)
- Up to 256 QAM DL/UL
- 1T2R MIMO
- 1CC
- Network slicing
- DSSA (dual SIM, single active)

MediaTek  
T300

## Extremely Compact Platform

Extremely compact platforms with simplified, yet highly reliable antenna designs are required for wearable and IoT devices.

- World's 1<sup>st</sup> RFSOC with highly integrated modem and RF sub-system
- 60% smaller PCB vs 4G IoT modem solutions

## 3GPP Release-17 modem

- Up to 227 Mbps peak downlink (Sub-6 SA)
- Up to 122 Mbps peak uplink (Sub-6 SA)
- R17 low power enhancements (10% reduction)
- R17 coverage enhancement
- R17 small data transmission

## MediaTek 5G RedCap UltraSave

MediaTek 5G RedCap UltraSave ensures the M60 a clear choice for power-limited applications, minimizing costs, and promoting energy sustainability in large device deployments.

- 60% lower power vs 4G IoT modem solutions
- 70% lower power vs 5G eMBB modem solutions
- 10% extra power saving with Paging Early Indication, UE Subgrouping, and TRS info
- 10% extra power saving with PDCCH monitoring adaptation, and RLM relaxation