

Title: Power usage of a 5G base station

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Base Station Power ConsumptionEnergy Saving Features of 5G New RadioHow Much Energy Can We Save with Nr Sleep Modes?Impact on Energy Efficiency and Performance in A Super Dense Urban ScenarioFurther ReadingThe 5G NR standard has been designed based on the knowledge of the typical traffic activity in radio networks as well as the need to support sleep states in radio network equipment. By putting the base station into a sleep state when there is no traffic to serve i.e. switching off hardware components, it will consume less energy. The more component...See more on ericsson

**#b\_results** **li.b\_ans.b\_mop.b\_mopb,#b\_results**  
**li.b\_ans.b\_nonfirststopb**{border-radius:6px;box-shadow:0 0 0 1px rgba(0,0,0,.05);margin-top:12px;margin-bottom:10px;padding:15px 19px 10px}**#b\_results**  
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**.b\_mrs**{width:648px;contain-intrinsic-size:648px 296px;display:flex;flex-direction:column;align-items:flex-start;gap:var(--smtc-gap-between-content-medium);align-self:stretch;padding:var(--smtc-gap-between-content-medium) 0}**.b\_ans** **#b\_mrs\_DynamicMRS**  
**h2**{display:-webkit-box;-webkit-box-orient:vertical;-webkit-line-clamp:1;line-clamp:1;align-self:stretch;overflow:hidden;color:var(--smtc-foreground-content-neutral-secondary);text-overflow:ellipsis;font:var(--bing-smtc-text-global-subtitle1)}**#b\_results** **#b\_mrs\_DynamicMRS** **.b\_vList**  
**li**{width:320px!important;padding-bottom:0;display:inline-block}**#b\_mrs\_DynamicMRS** **.b\_vList**  
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**a**{display:flex;height:48px;padding:0 var(--mai-smtc-padding-card-default);align-items:center;gap:var(--smtc-gap-between-content-small);flex-shrink:0;border-radius:var(--smtc-corner-circular);background:var(--bing-smtc-data-background-gray-subtle);color:var(--smtc-foreground-content-neutral-primary);transition:background-color var(--smtc-duration-medium-01) var(--bing-smtc-animation-ease-default)}**#b\_mrs\_DynamicMRS** **.b\_vList** **li**  
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**.b\_dynamicMrsSuggestionIcon**{display:block;width:20px;height:20px;background-clip:content-box;overflow:hidden;box-sizing:border-box;padding:var(--smtc-padding-ctrl-text-side);direction:ltr}**#b\_mrs\_DynamicMRS** **.b\_vList** **li** **a** **.b\_dynamicMrsSuggestionIcon:after**{display:inline-block;transform-origin:-762px

# Power usage of a 5G base station

might like5g network architecturehow much power does a data center usehow much electricity does a data center usedata center power consumptionIEEE XplorePower consumption based on 5G communication - IEEE XploreAt present, 5G mobile traffic base stations in energy consumption accounted for 60% ~ 80%, compared with 4G energy consumption increased three times. In the future, high-density overlapping ...

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At present, 5G mobile traffic base stations in energy consumption accounted for 60% ~ 80%, compared with 4G energy consumption increased three times. In the future, high-density overlapping ...

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