



DTG202 BENGKEL KOMUNIKASI NIRKABEL



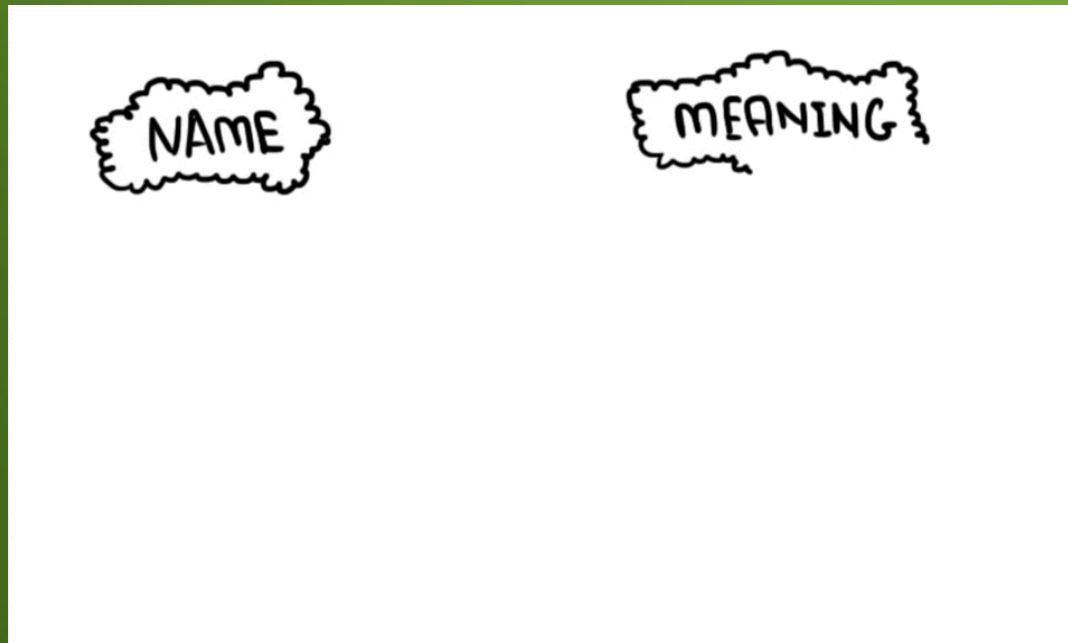
By Dwi Andi Nurmantris

BLUETHOOTH



ASAL MULA NAMA BLUETHOOTH

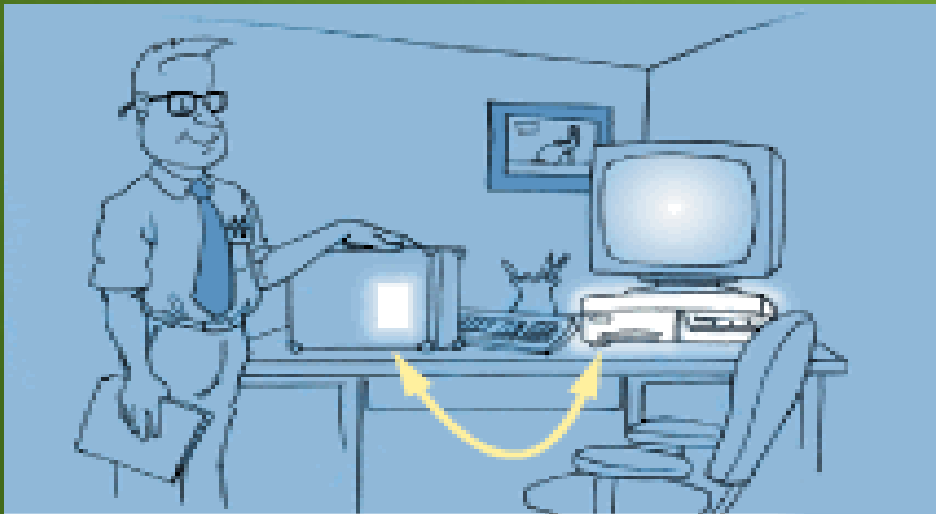
- ❑ The name 'Bluetooth' was named after 10th century Viking king in Denmark Harald Bluetooth who united and controlled Denmark and Norway.



- ❑ The name was adopted because Bluetooth wireless technology is expected to unify the telecommunications and computing industries

BLUETHOOTH

☀ Bluetooth is an open standard for short-range digital radio to interconnect a variety of devices Cell phones, PDA, notebook computers, modems, cordless phones, pagers, laptop computers, printers, cameras by developing a single-chip, low-cost, radio-based wireless network technology

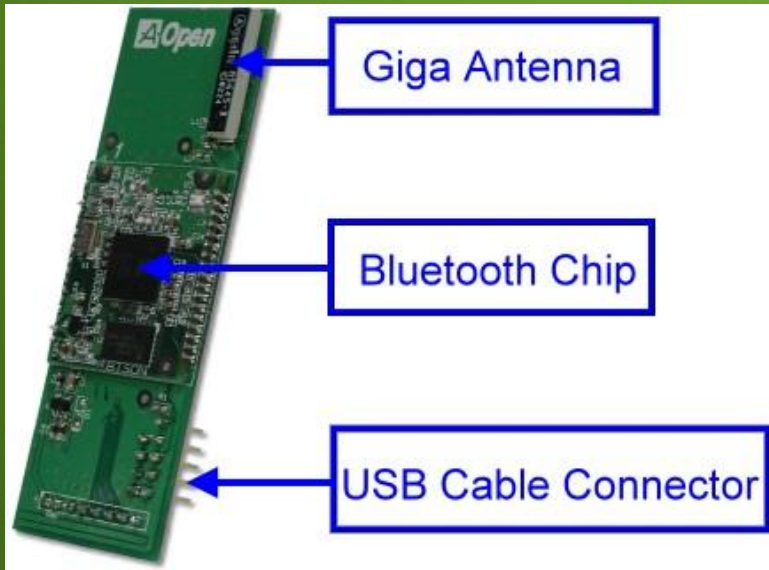


BLUETHOOTH

- ❑ Awal mula dari Bluetooth adalah sebagai teknologi komunikasi wireless (tanpa kabel) yang beroperasi dalam pita frekuensi 2,4 GHz yang digunakan pada unlicensed ISM (Industrial, Scientific and Medical).
- ❑ Bluetooth menggunakan frekuensi radio standar IEEE 802.11



BLUETHOOTH



- ❑ Wireless technology used to transfer data between different electronic device
- ❑ Distance of data transmission is small
- ❑ Eradicates the use of cord, cable, adapter



WHO STARTED BLUETHOOTH?

- ❑ Bluetooth Special Interest Group (SIG)
- ❑ Founded in Spring 1998
- ❑ By Ericsson, Intel, IBM, Nokia, Toshiba;
- ❑ Now more than 2000 organizations joint the SIG



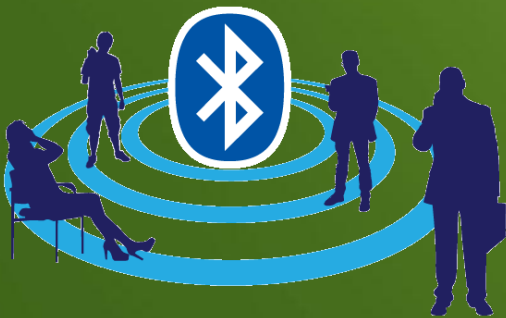
Karakteristik Bluetooth

- Transmits data via low-power radio waves
- It communicates on frequency 2.45 Gigahertz
- Send out very weak signal of about 1 milli watt
- The range is about 10 meter



Importance of Bluetooth

- ❑ Replace cable for transferring information
- ❑ Decrease Strain like carrying phone while talking, making hand free to do another work
- ❑ Mobility is also very Important, as it doesn't need any power outlet or internet connection or any other item



Disadvantage of Bluetooth

- ❑ Data sent between two Bluetooth device is very slow compare with Wi-Fi transfer rate
- ❑ Range Of a Bluetooth device is 15-30 feet
- ❑ Security
- ❑ Battery Usage is also a Problem



TUGAS 1

1. Jelaskan Spesifikasi teknis Bluetooth!
2. Jelaskan Protokol stack pada Bluetooth!
3. Jelaskan Topologi dari Bluetooth!
4. Jelaskan Security dalam Bluetooth!
5. Jelaskan Kelas-kelas power dalam bluetooth!
6. Jelaskan Aplikasi aplikasi Bluetooth!



ANY QUESTION?



Thank You!
😊

