Giga-IR
High Speed Opto-communication

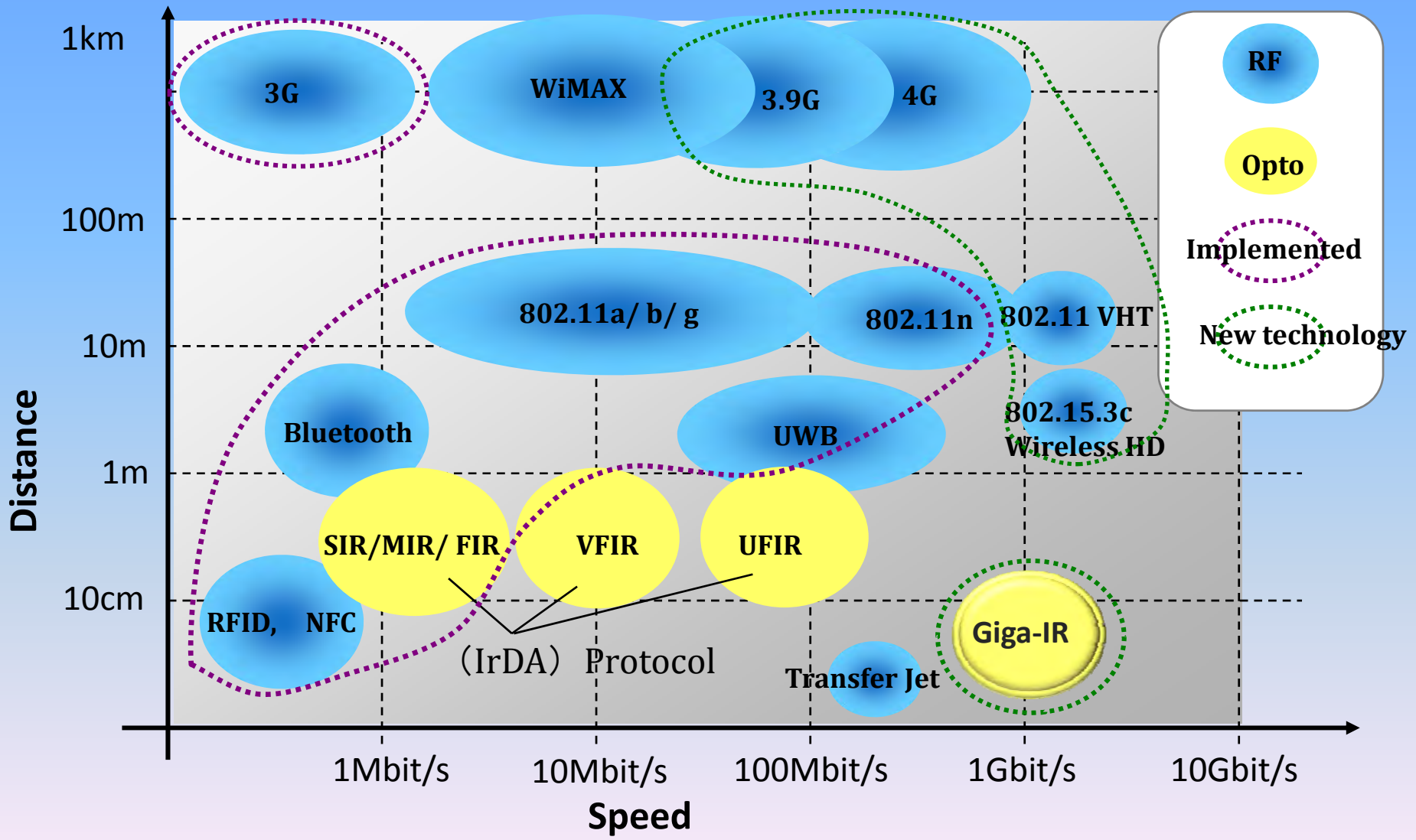
Infra-red Data Communication
Giga-IR SIG www.irda.org

Market Needs

Market needs to consolidate the data into one single handset

Demands for fast speed
data transfer

Where does it fit in the wireless communication?

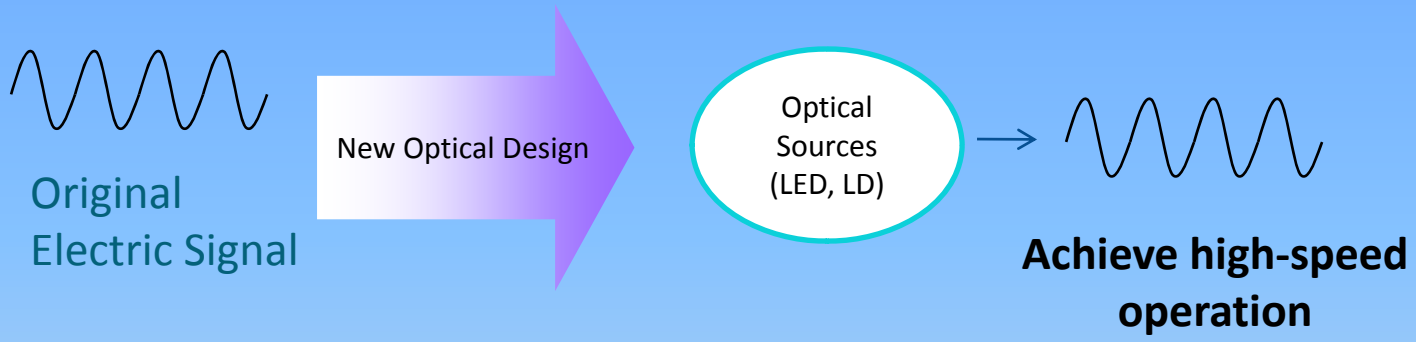


100MB Data Transfer Speed Comparison

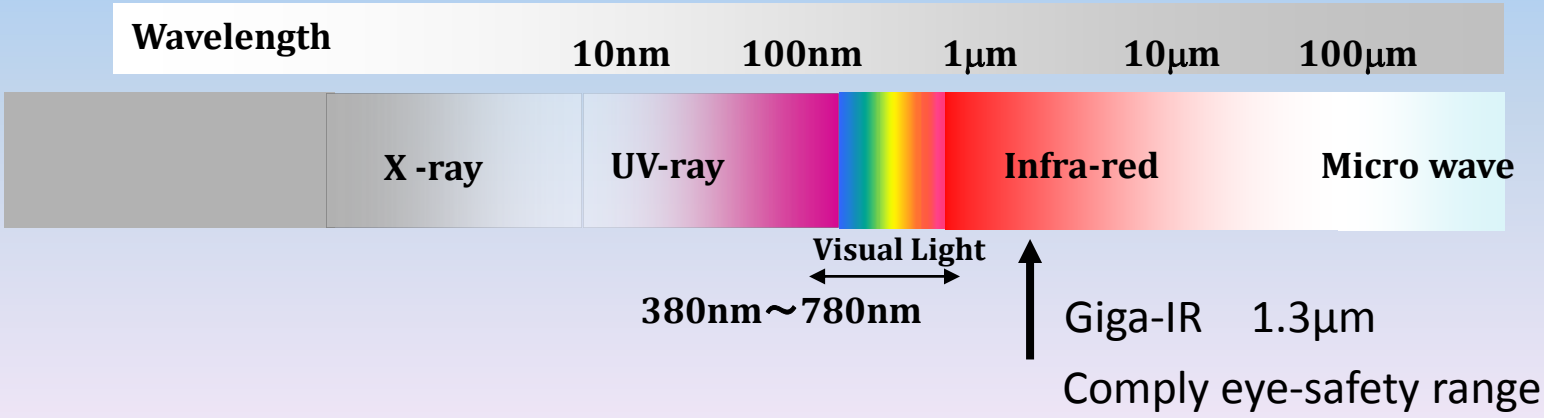
Giga-IR	**1Gbit/s**	**0.8 Sec**
IrSimple™	4Mbit/s	3 min 20 sec
Bluetooth®	3Mbit/s	4 min 27 sec

Key Consideration in designing Giga-IR

Maximize the opto-wireless technology

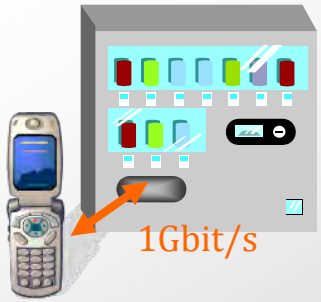


Giga-IR wavelength – Eye Safety first

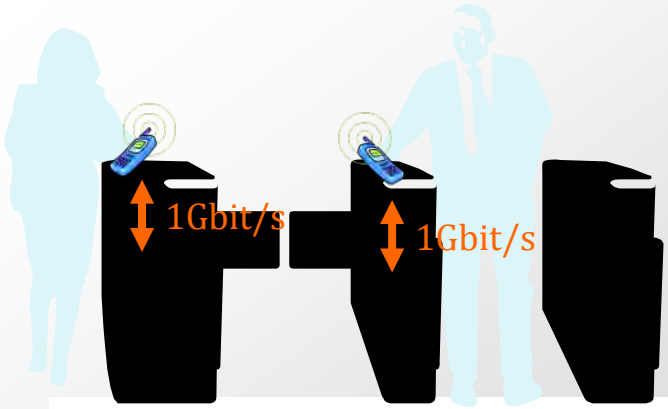


Examples of using Giga-IR

Interface multi-portable devices



Download music and movies from a Kiosk at rental shop



Promotional or special data exchange at the tradeshow

Features and Benefits of Giga-IR Summary

- Fast： ≥1Gbit/s
  - ❑ 250 times faster that conventional IrDA interface.
  - ❑10 times faster than FTTH (Fiber To The Home)
  - ❑ Download music file 20 to 30 songs within a second
- Secure ： Line of sight
  - ❑ Provide secure connection for your personal and private data
- Compact ： Size of the optical element
  3×3×8mm max.

Giga-IR Cornerstones and Future Plans

Creation of SIG (Special Interest Group) in December 2007
Members of SIG
E-Globaledge, KDDI, Panasonic

Scheduling