

# 移动新构想

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# 今天的移动设备



- 本地运行的应用程序
- I/O 受限于尺寸
- 有限的因特网访问
- 固定的用户界面
- 位置信息感知
- 有线设备同步

# 明天的移动设备



## Today

本地运行的应用程序

触摸屏

I/O受限于尺寸

有限的因特网访问

位置信息感知

有线设备同步



## Tomorrow

+ 万维网应用程序

运动和声音控制

利用就近设备进行 I/O

完整的因特网访问体验

位置相关的服务

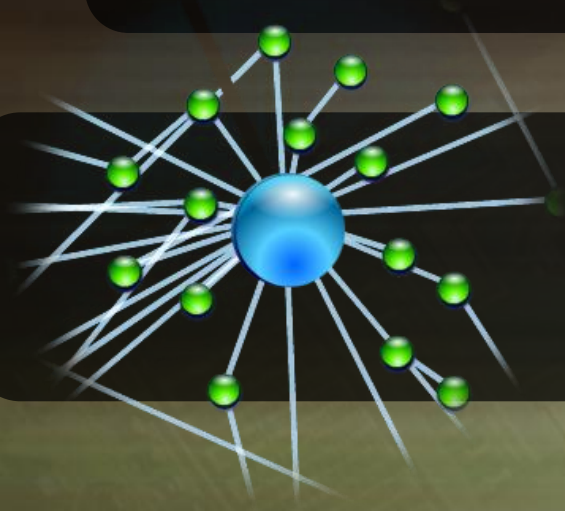
无线设备同步

# 重新定义移动构想

性能更强的移动设备



更多感知性的移动设备



更个性化的移动设备



轻装上阵，畅享生活



未来新远景...

# 轻装上阵：小平台，高性能

## 未来移动设备远景

- 用户仅携带必要的计算资源
- 更强的计算和图形处理能力
- 平台节能化
- 多无线电集成
- 片上平台
- 利用传感器和智能推断协助你了解周围世界



# 畅享生活：更好的体验

## 畅享没有边界...

- 提供无所不在的、更加稳健的移动体验
- 无缝地接入任何新设备、网络和服务
- 智能地理解和预测你需要的服务



# 让我们畅享生活...

无线接入的扩展坞

交互显示的游戏



电视点播



个性化购物



小型会议



旅行顾问

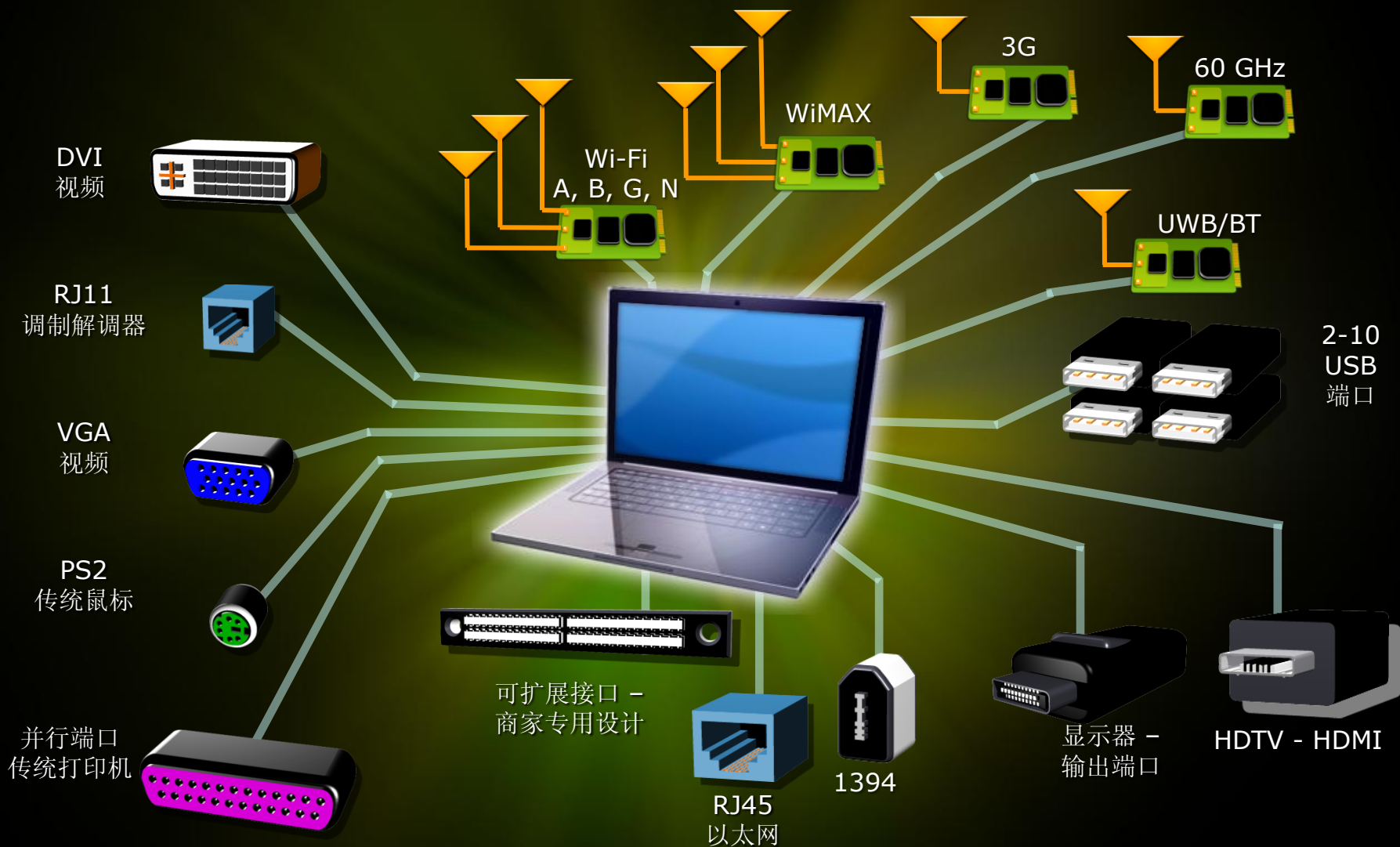




轻装上阵，畅享生活：  
什么是关键技术？

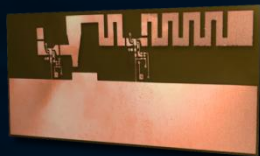


# 轻装上阵：我们必须改变连接平台

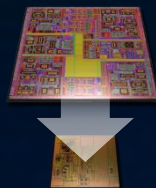


# 多无线电融合技术

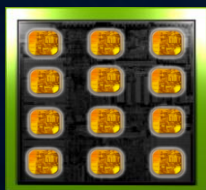
可调前端/天线



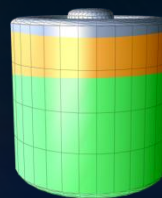
数字无线电  
RFIC



多级可升级通讯核 -  
PHY/MAC



无线平台  
片上系统  
无线干扰抑制



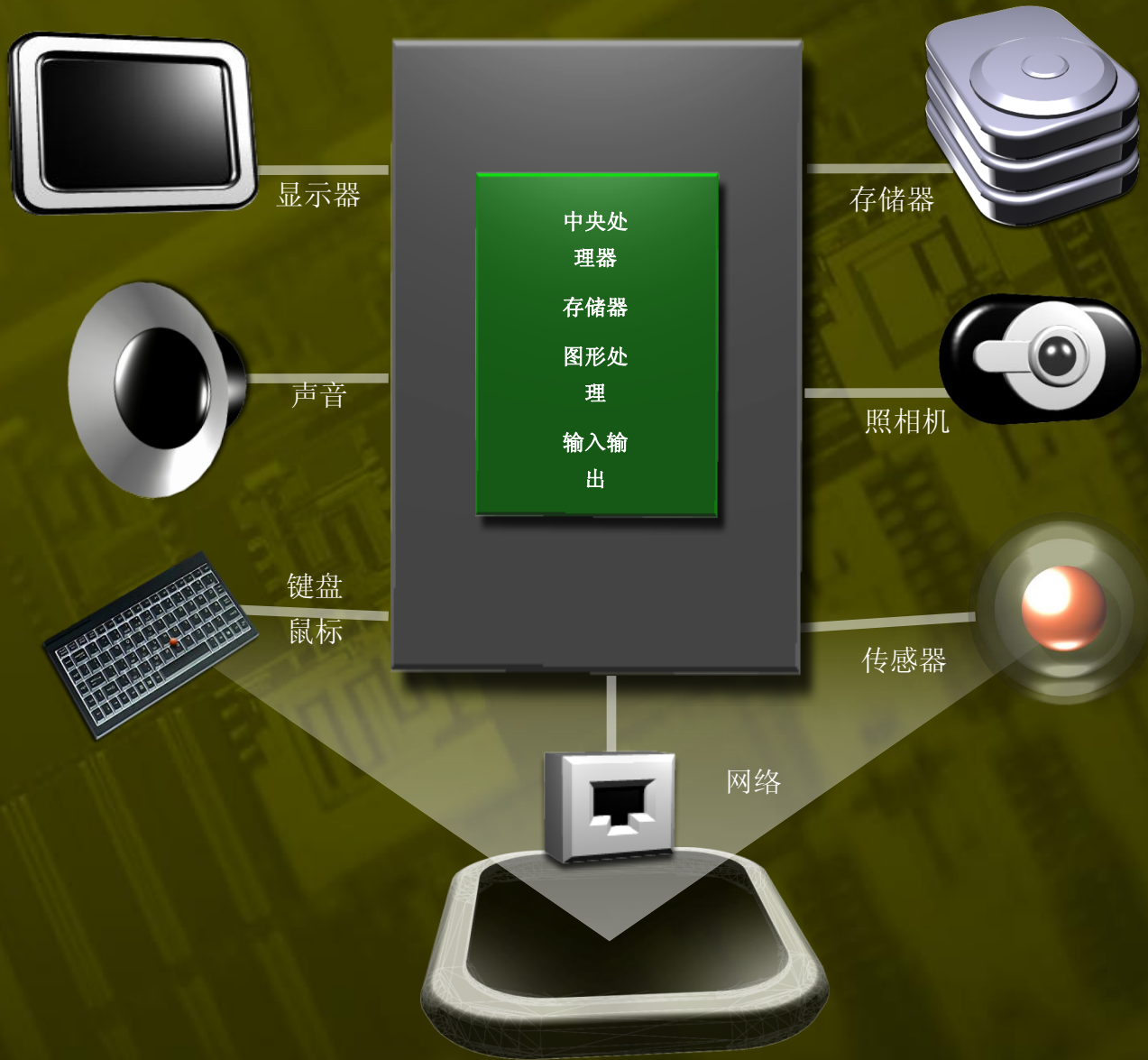
能量有效通信



无缝联接



# 传统移动设备



# 利用临近设备 提高用户体验



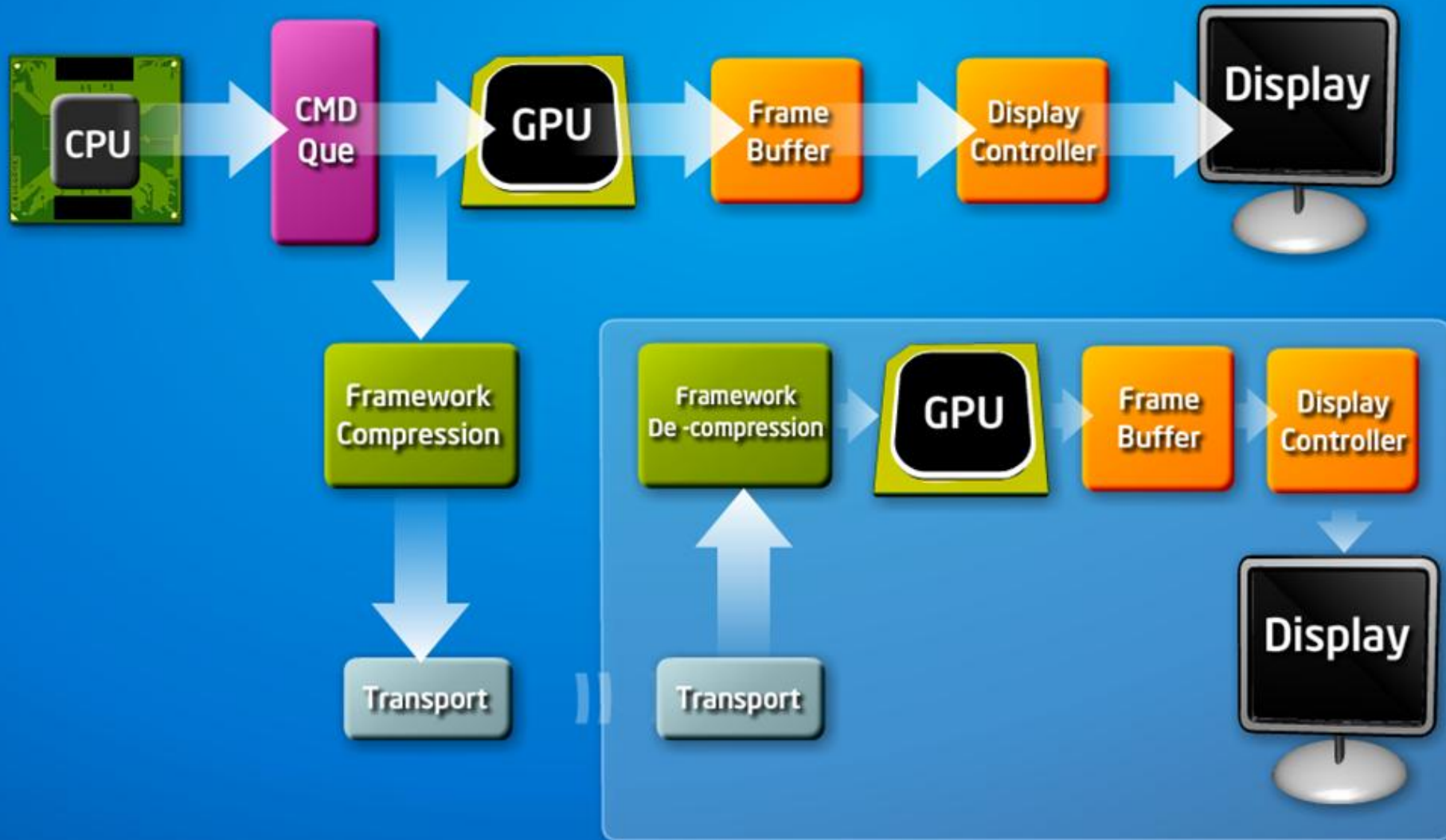
## 动态发现临近的移动设备

- 无线环境中的休眠设备发现
- 需要时连接

## 简单安全的连接设置

- Pin 接入 或 NFC 触摸式接入

# Remote Graphics Rendering



(flash animation)

# 预见你的需要：通晓情境

感知

推论

决策

行动

目标：只需人监督，不需人来控制

# 需要什么才能实现这个远景？

- 工业界的合作
  - 标准化
  - 技术融合





# 业界殊途...

"东芝发布单片CMOS 60G 接收器。  
" ‡

"基于超宽带无线**USB**，三星和惠普  
有计划。" †

"飞利浦和索尼合作促进使用另外版本的  
UWB。" †

"松下，可能还有其它公司，包括东  
芝，将会继续推进基于60G 射频的  
无线USB。" †

PALO ALTO, 加州. - Dec. 10, 2007 - **DisplayLink and  
Alereon**, 这两家公司今天联合宣布了一个为**PC**通过无线  
**USB**连接到显示器的参考设计。  
[DisplayLink Press Release]

"在上周的CES,索尼也有一些基于专有Wi-  
Fi的展示。" †

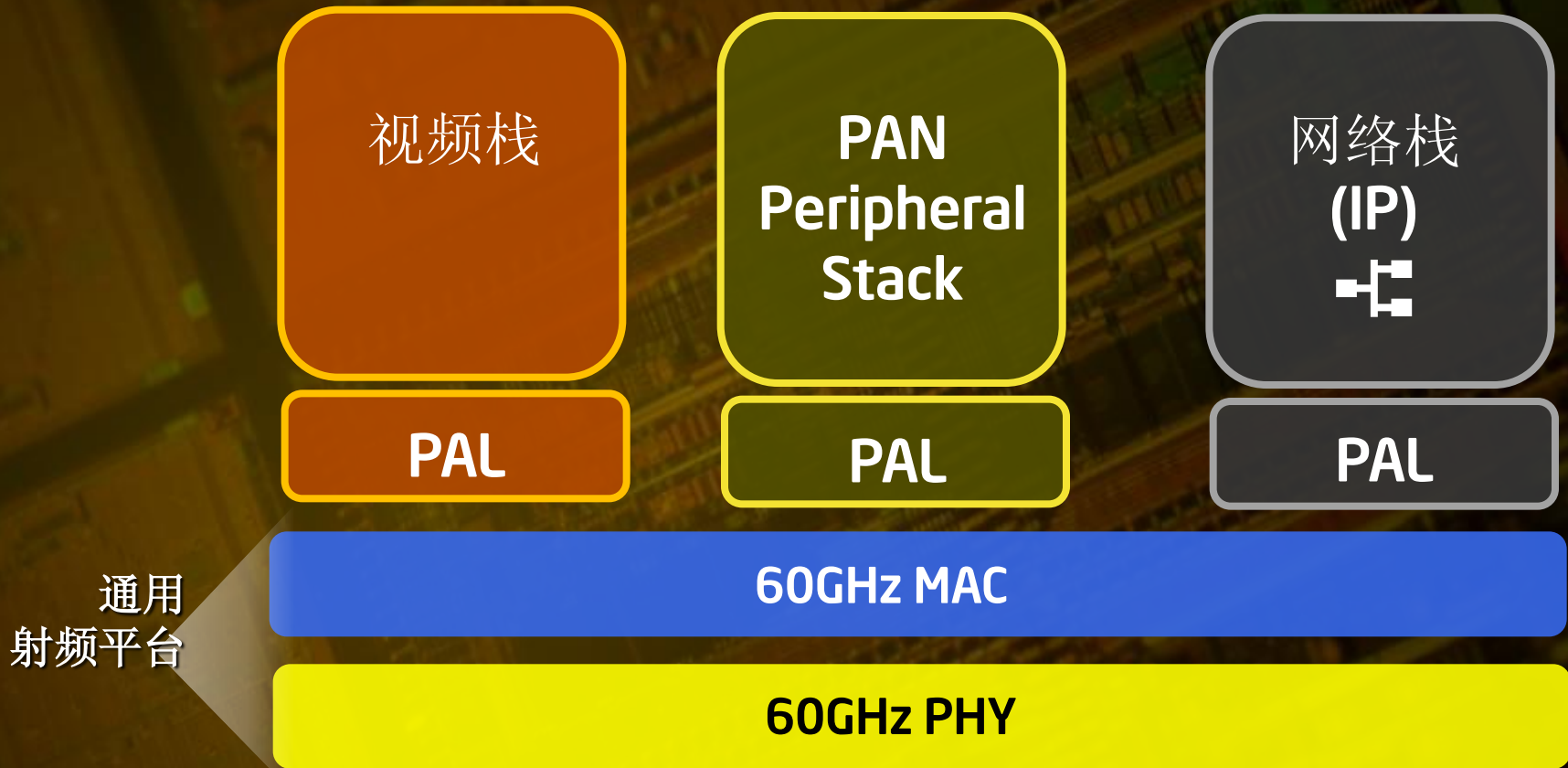
"**LG** 电子至少开始使用Wi-  
Fi。" †

## Sources:

† EE Times, "CE's wireless Babel: Connectivity strategies are all over the map", January 14, 2008, by Rick Merritt and Junko Yoshida

‡ Electronic Design, "60-GHz CMOS Transmitter Stimulates Millimeter-Wave Developments", September 13, 2007

# 体系融合以适应不同要求

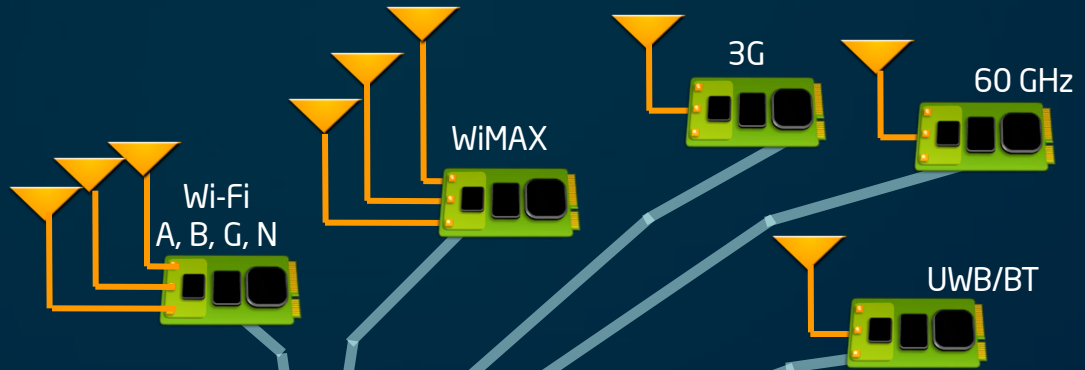


方案举例：短射程无线通讯

# 统一平台I/O展望

多射频集成 &  
无线个域网络  
(PAN) 融合

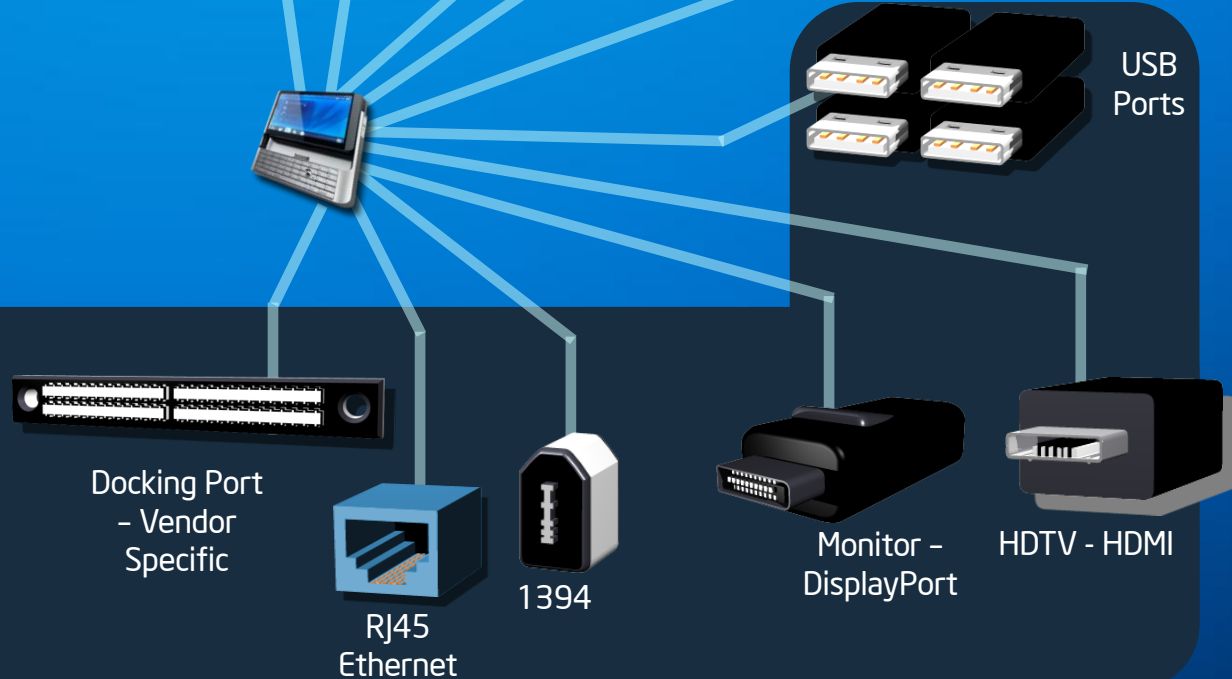
统一的逻辑网络  
选择最好的射频



## 无线 I/O

通用端口 (光纤)

即将到来的低花费光纤的  
转变被充分利用于统一  
I/O

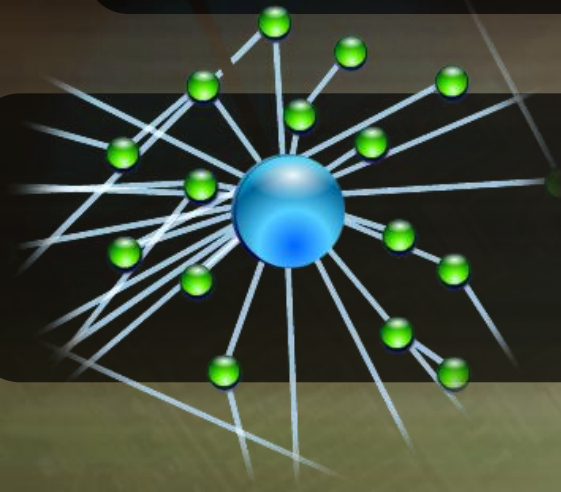


# 轻装上阵，畅享生活： 移动新构想

更 **强大** 的移动设备



更具 **感知** 的移动设备



更 **个性化** 的移动设备



用户和公司将受益于融合和标准化  
以实现移动通讯的未来

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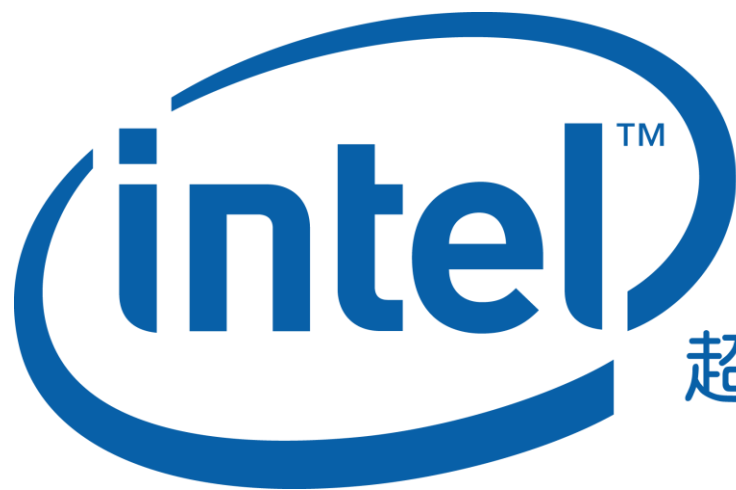
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