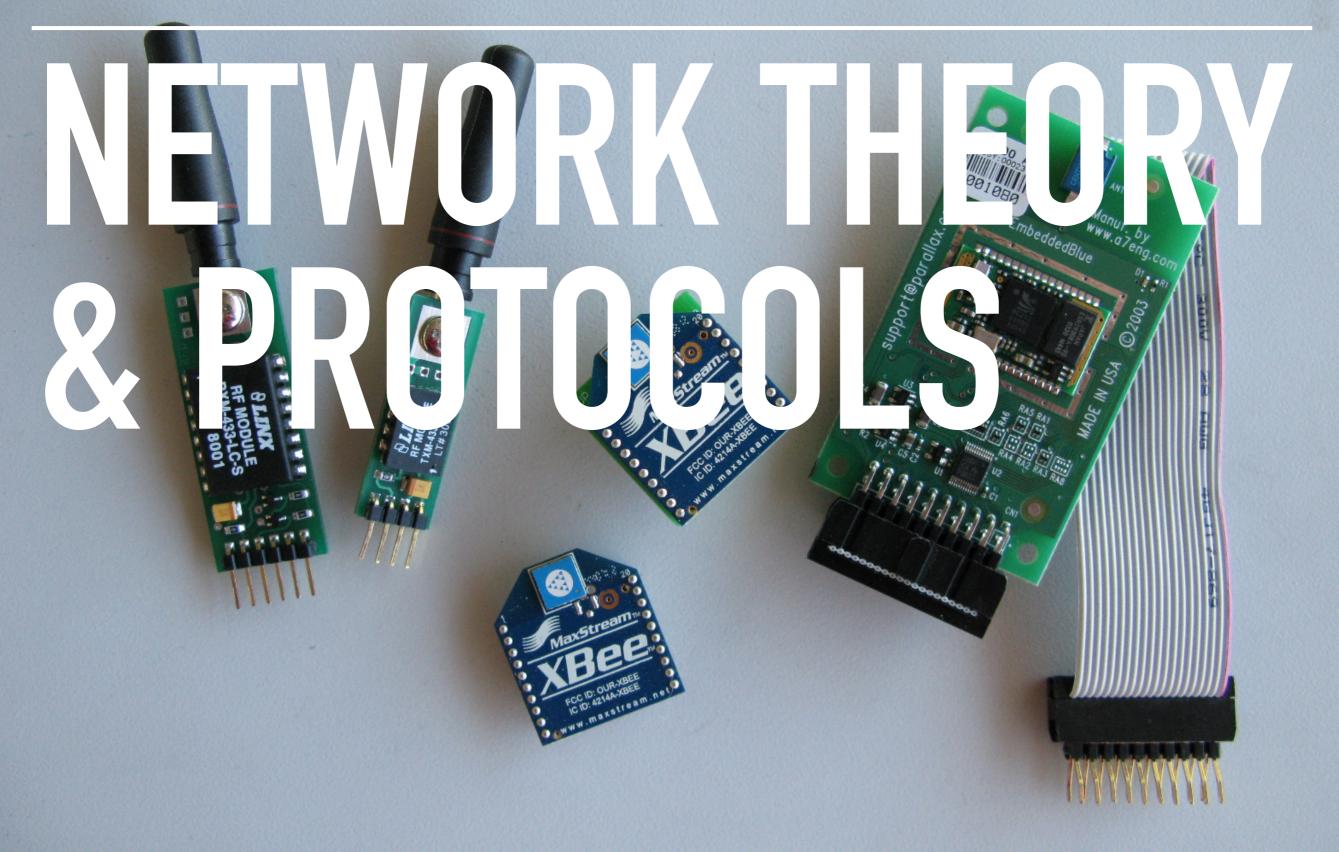
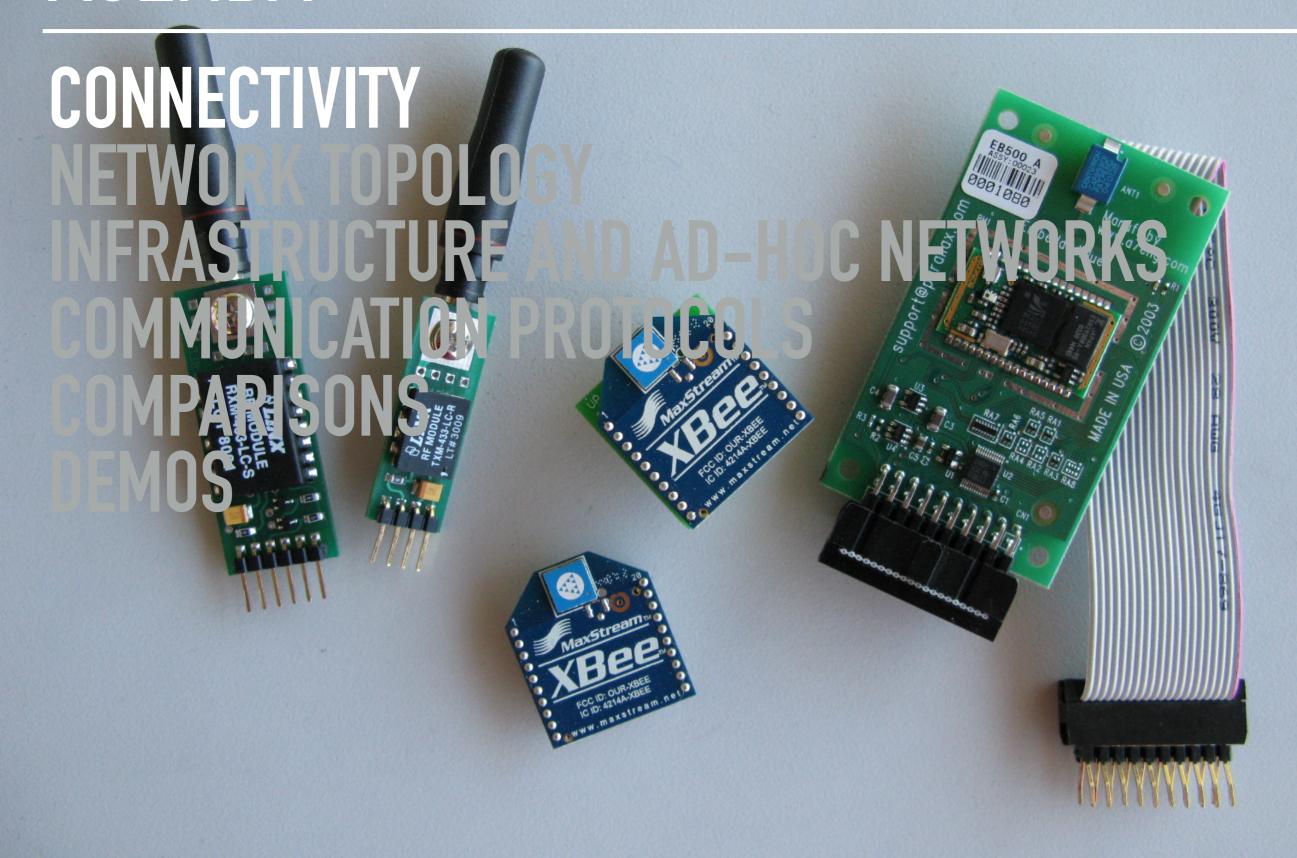
TANGIBLE MEDIA & PHYSICAL COMPUTING





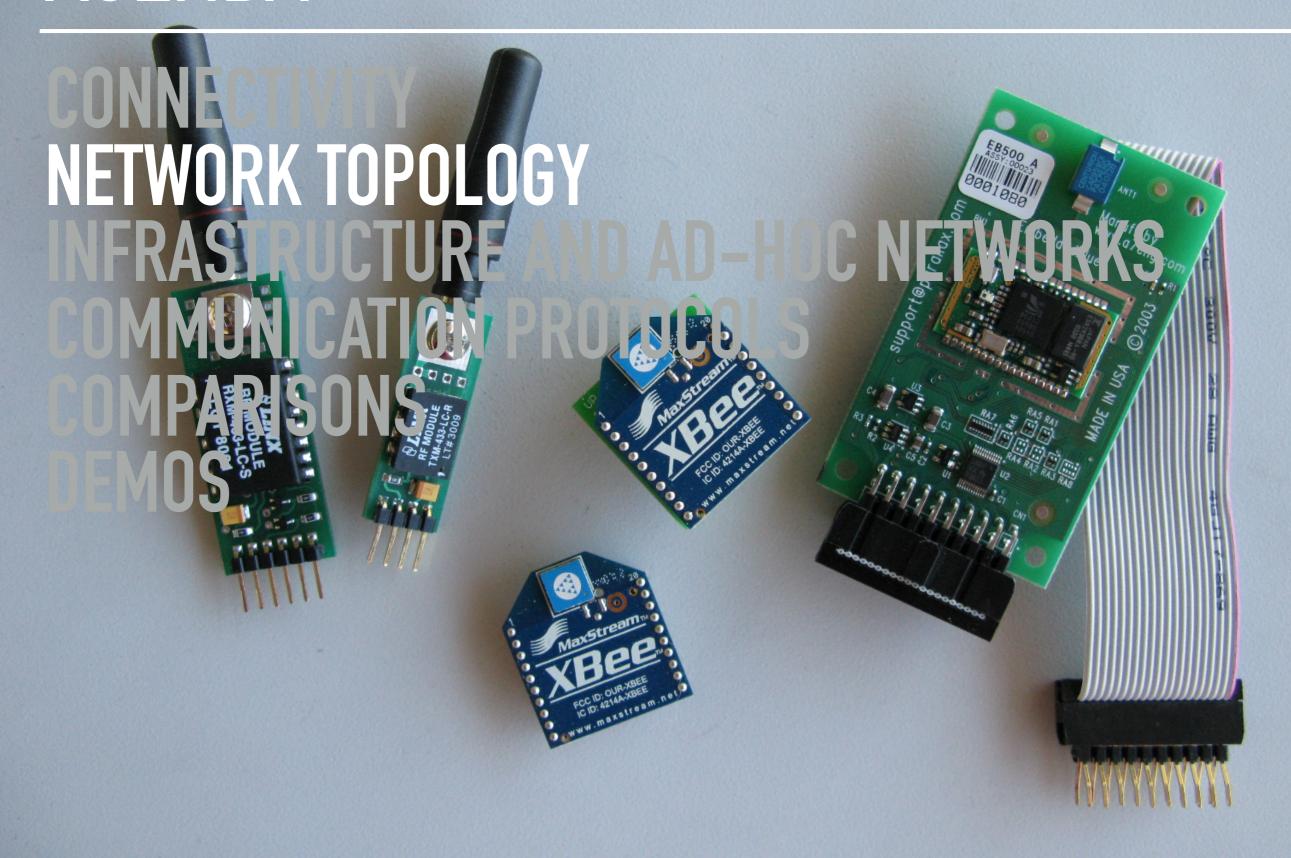
CONNECTIVITY

WIRELESS [WIFI] OR WIRED [ETHERNET]

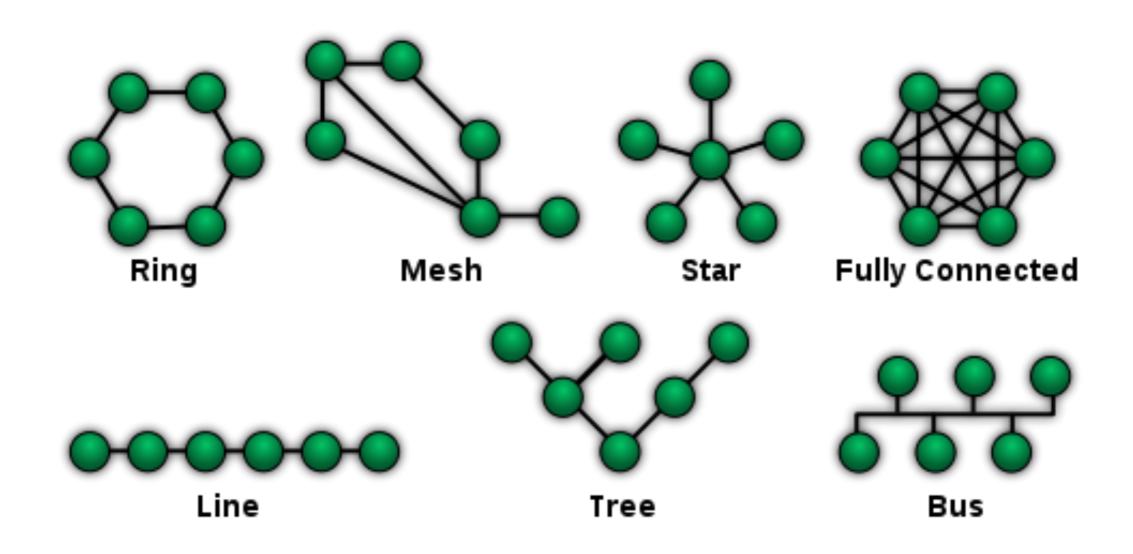
POWER [TRANSMISSION] & RANGE

DATA TRANSMISSION RATE

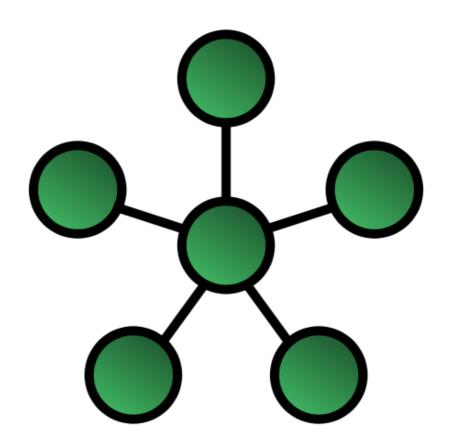
NETWORK INFRASTRUCTURES



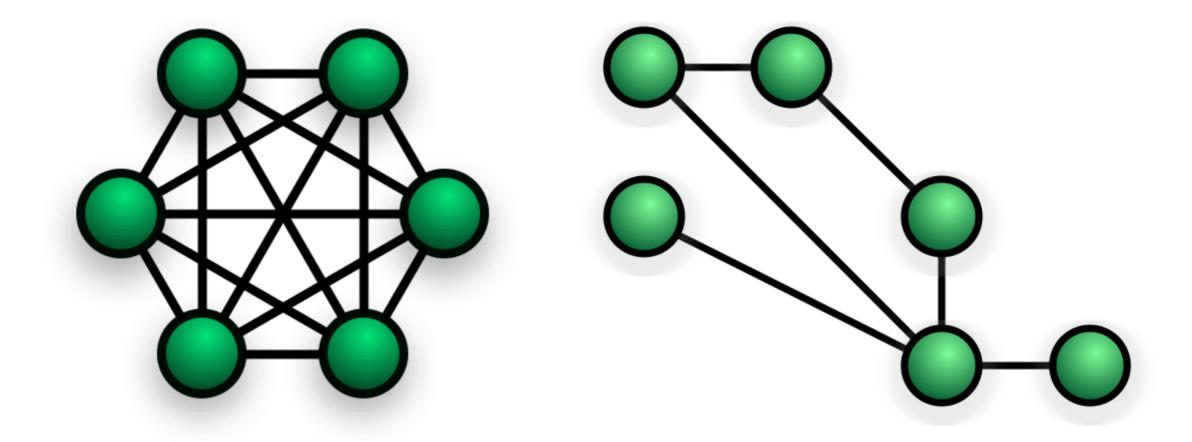
NETWORK TOPOLOGY

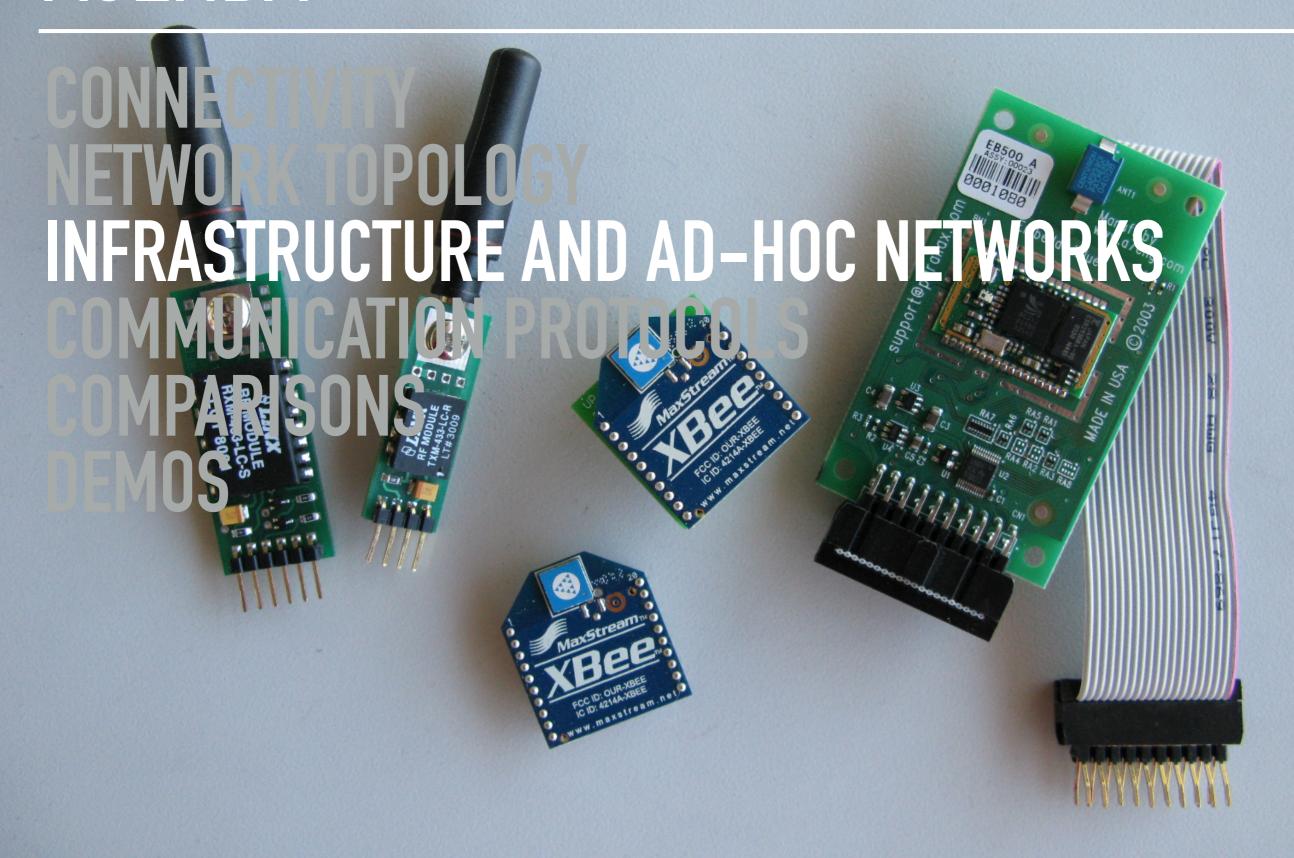


NETWORK TOPOLOGY: STAR

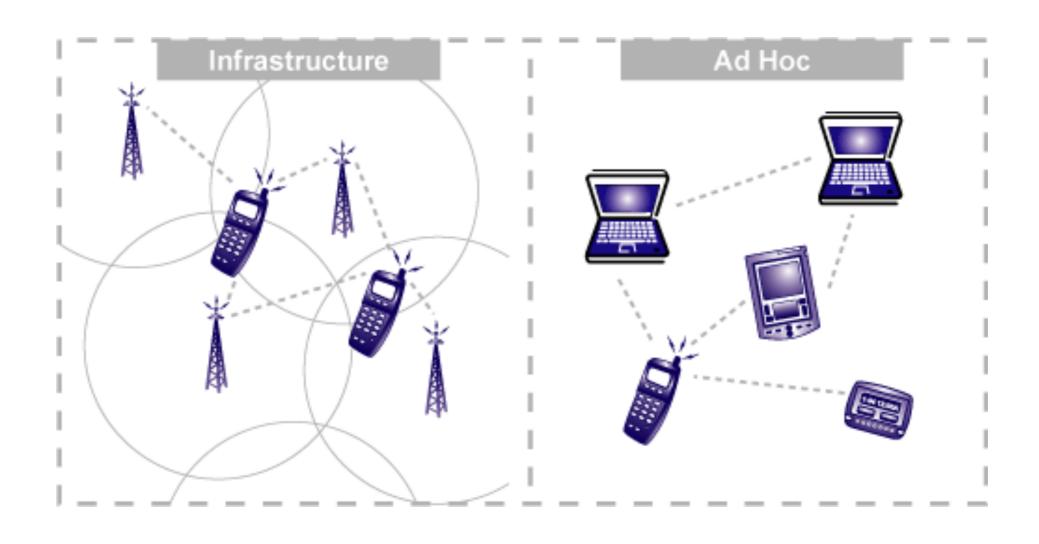


NETWORK TOPOLOGY: MESH

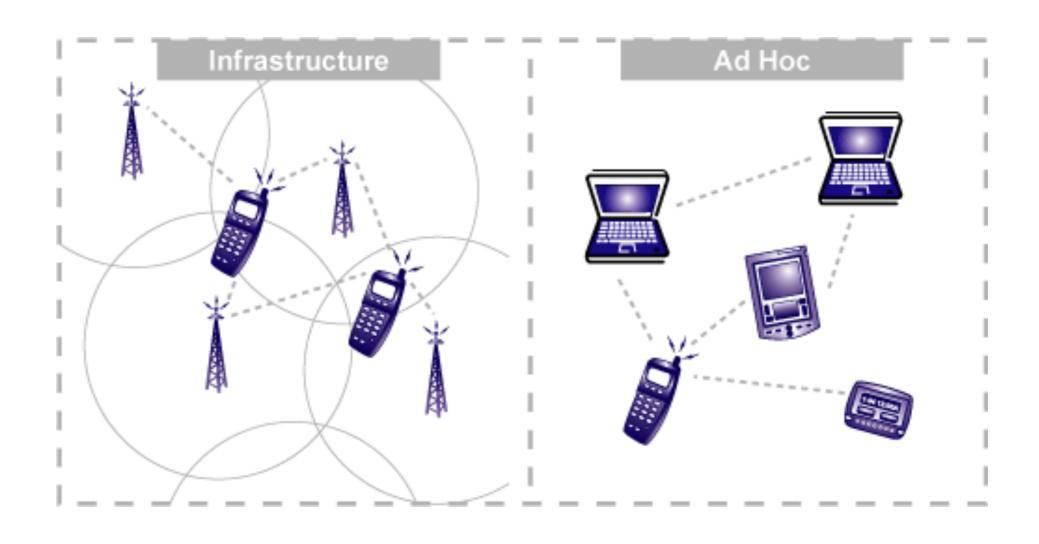


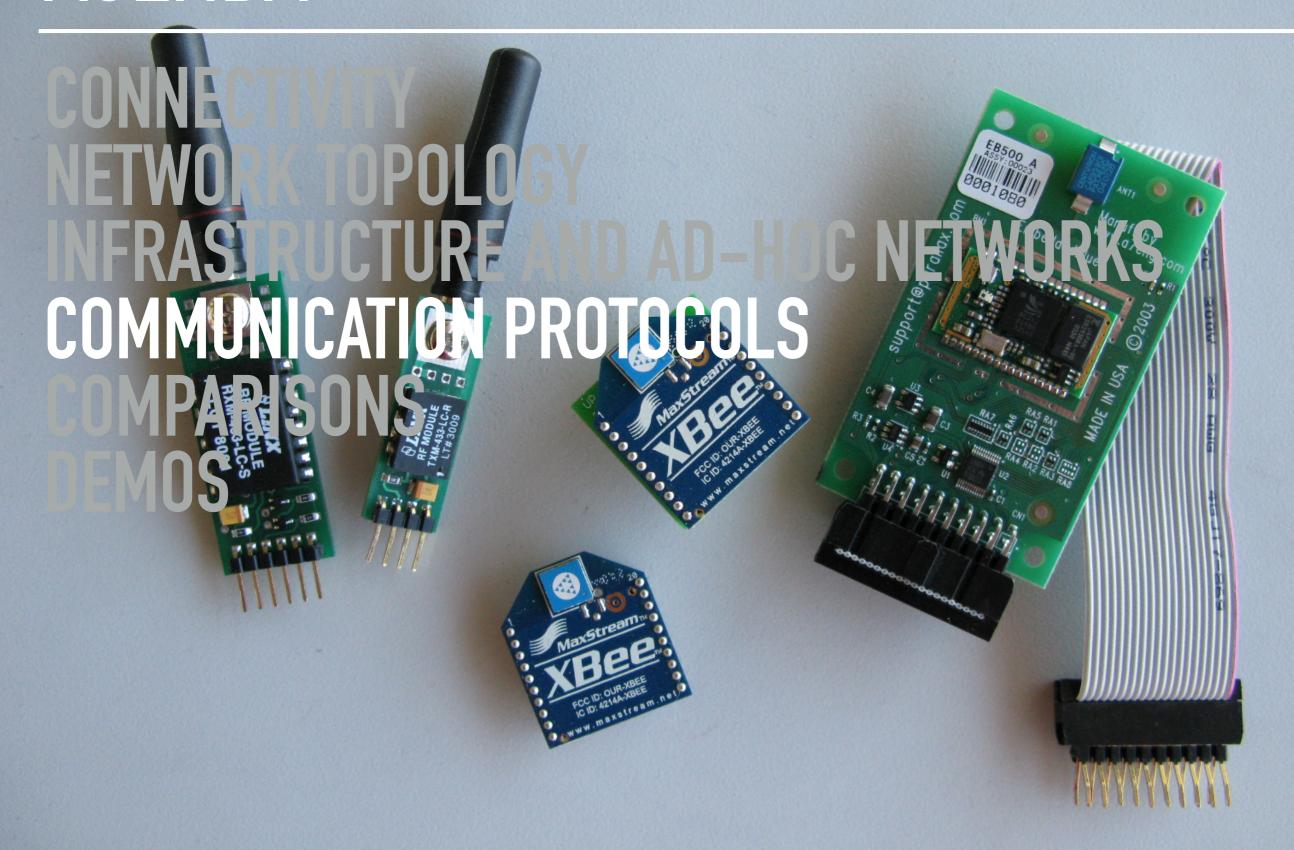


INFRASTRUCTURE AND AD-HOC



INFRASTRUCTURE AND AD-HOC

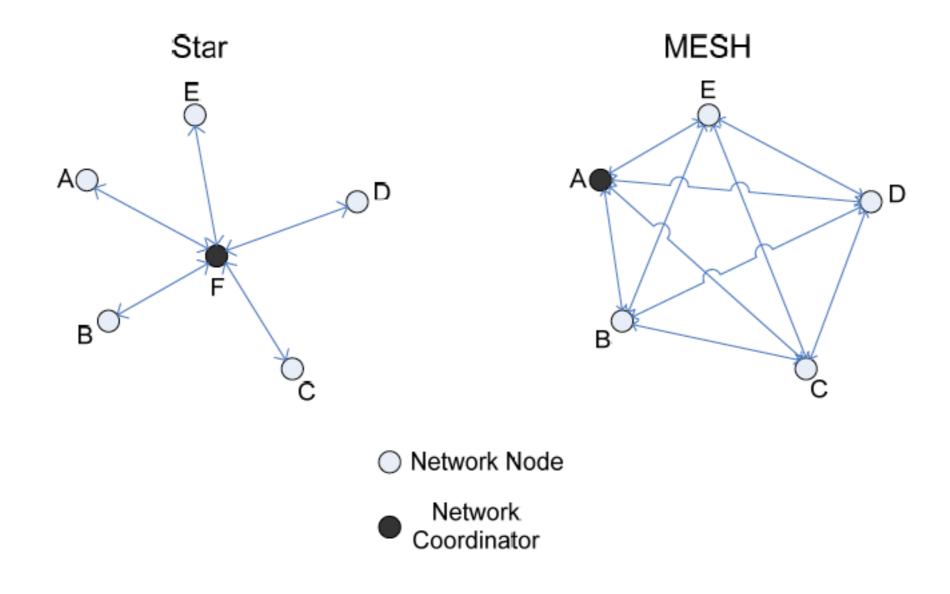




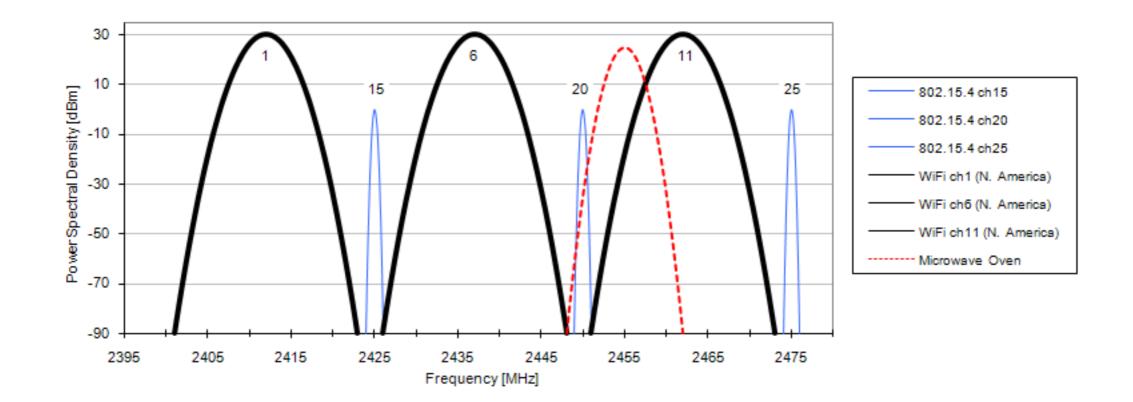




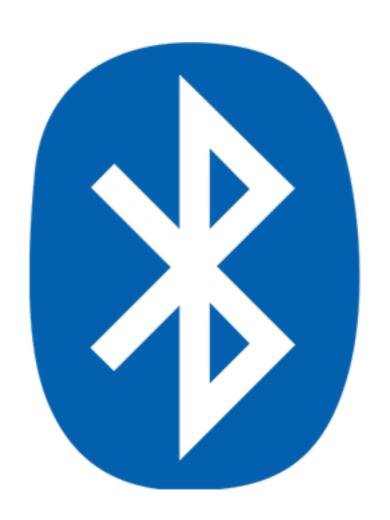
ZIGBEE [XBEE]



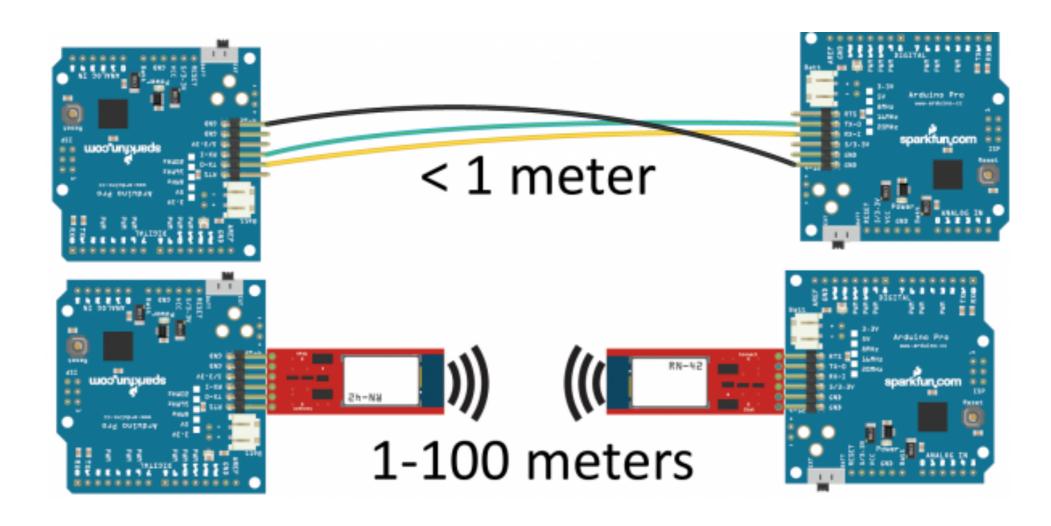
ZIGBEE [XBEE] CO-EXIST WIFI



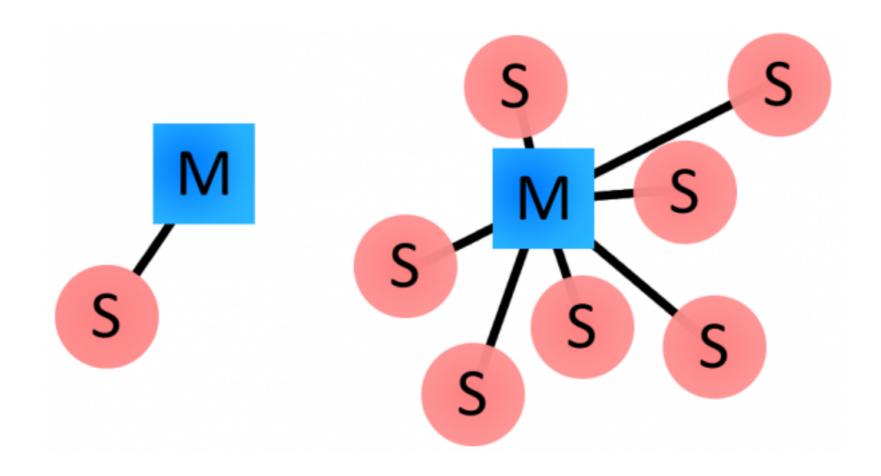
BLUETOOTH



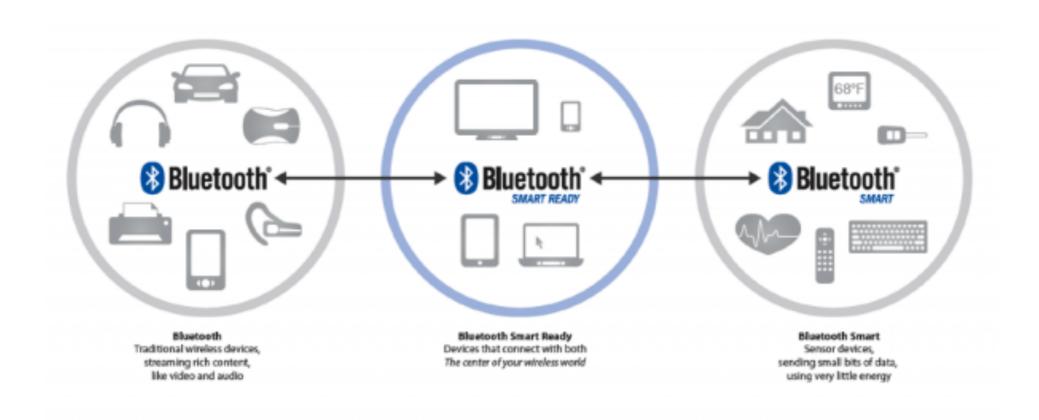
BLUETOOTH CLASSIC



BLUETOOTH CLASSIC



BLUETOOTH FLAVOURS

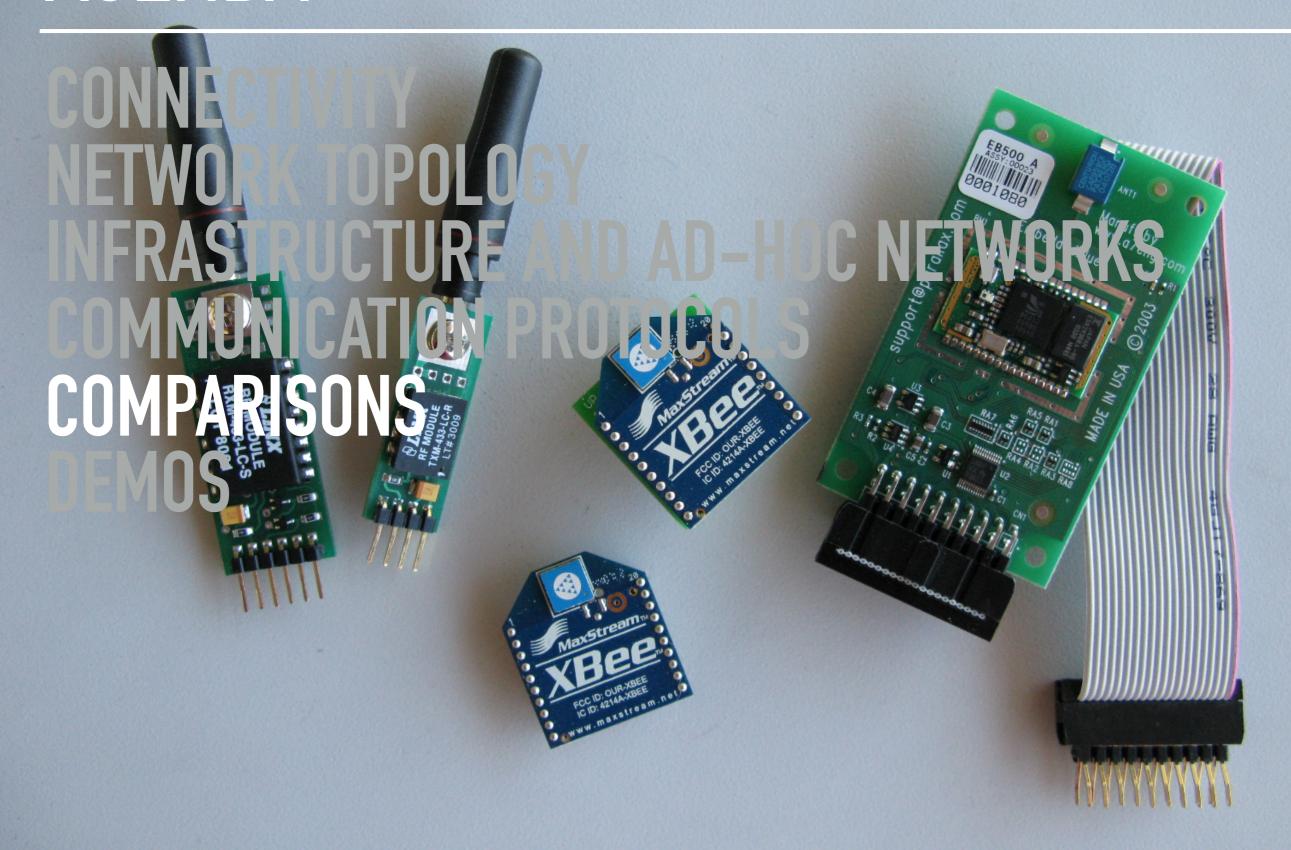


RFID



NFC





COMPARISONS

Name	Bluetooth Classic	Bluetooth 4.0 Low Energy (BLE)	ZigBee	WiFi
IEEE Standard	802.15.1	802.15.1	802.15.4	802.11 (a, b, g, n)
Frequency (GHz)	2.4	2.4	0.868, 0.915, 2.4	2.4 and 5
Maximum raw bit rate (Mbps)	1-3	1	0.250	11 (b), 54 (g), 600 (n)
Typical data throughput (Mbps)	0.7-2.1	0.27	0.2	7 (b), 25 (g), 150 (n)
Maximum (Outdoor) Range (Meters)	10 (class 2), 100 (class 1)	50	10-100	100-250
Relative Power Consumption	Medium	Very low	Very low	High
Example Battery Life	Days	Months to years	Months to years	Hours
Network Size	7	Undefined	64,000+	255

