



ST60A2 RF Data Links



Value Proposition

Use Cases

Hardware

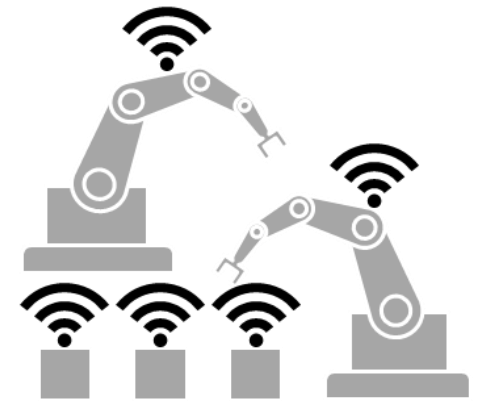
Applications



ST60 Value Proposition

Contactless Data Exchange

- No physical cables, connectors or plug insertion
- No exposure to static charge (electrical isolation)
- No exposure to environmental hazards like dust and moisture
- No mechanical stresses due to axis movement, expansion, vibration

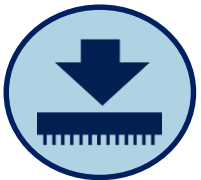




ST60A2 Characteristics

Fast, short-range, point-to-point RF data links

- All-in-1 60GHz transceivers (<5mm²)
- High bandwidth density (6Gbps/link)
- Industrial temp ranges (+85°C, 105°C)
- Antenna options for best application fit
- Extremely efficient (pJ/b) and secure
- No programming (pure HW solution)



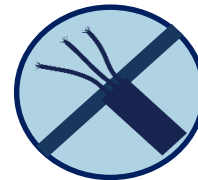
Factory
Automation



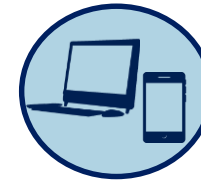
Wireless
Docking



Freedom of
Movement



Wire-like
Performance



Sleek Design



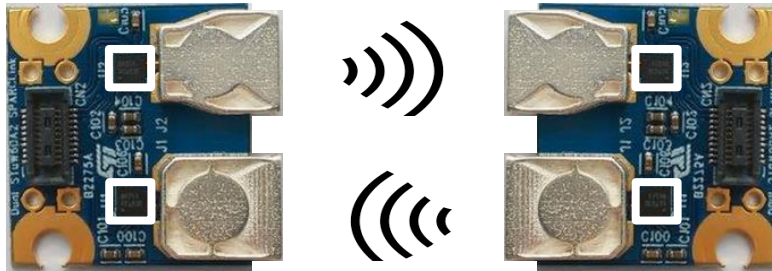
Highly
Secure





ST60A2 Use Cases

Wire-like data transmission over the air and through solid materials



- Board Level Communication



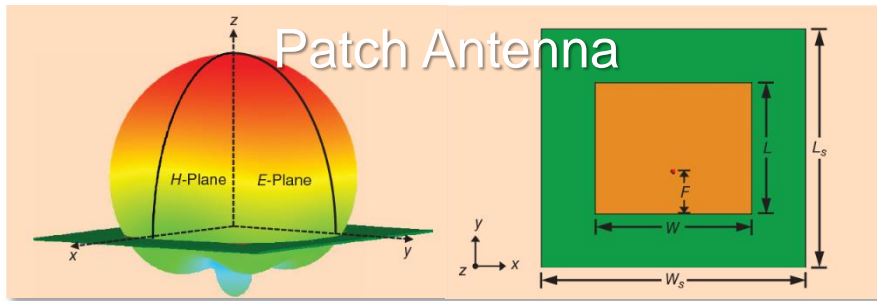
- Device Level Communication



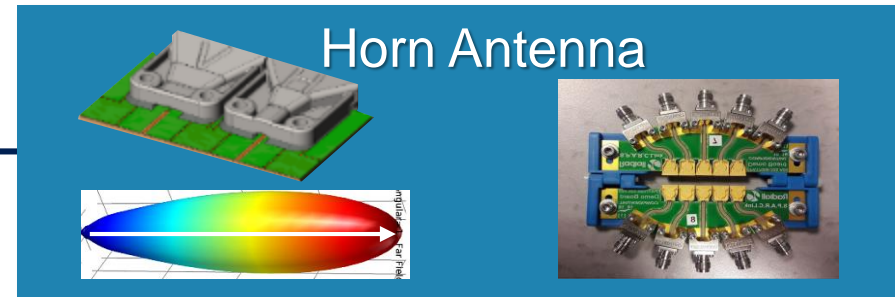


ST60A2 Antenna Options

Antenna solutions for best application fit



- Device Connectivity (~3 dBi)
- Vertical beam up to 1.5 cm
- Cost-effective connectivity



- Board Connectivity (~9 dBi)
- Radial (directive) beam up to 6 cm
- Distance and multilink connectivity



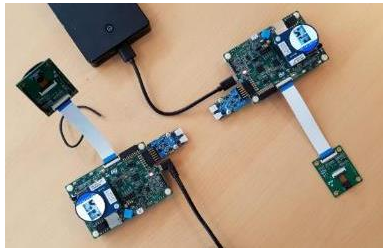


ST60A2 Hardware

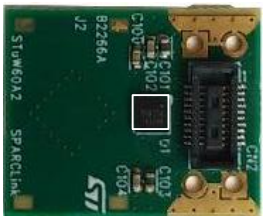
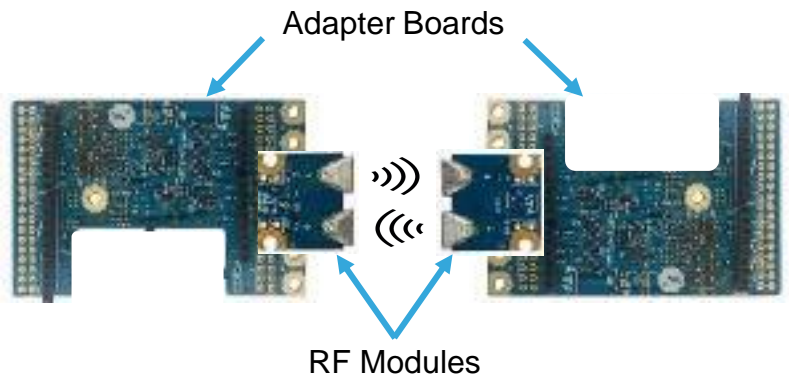
Boards for demonstration and evaluation speed-up



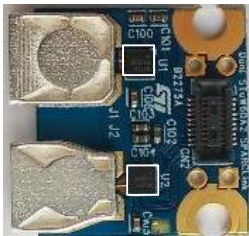
Wireless Ethernet



Wireless UART



B2266 (patch)



B2275/76 (horn)

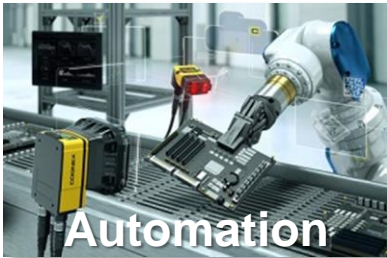




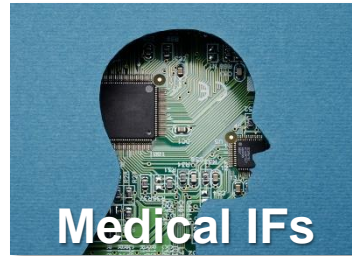
ST60 Application Versatility

RF vs wired data-link advantages

Industrial



- No Ethernet cables, plugs or RJ45 connectors, hermetically sealed, form-factor, reliability

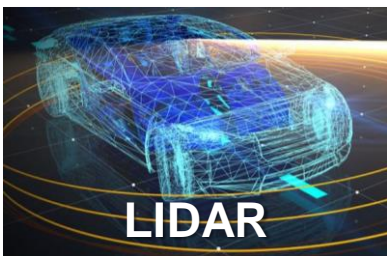


Peripherals



- LED tiles without physical connectors for detachability, form-factor, reliability

Imaging



- Freedom of movement, physical and electrical isolation, form-factor, reliability



- No connector wear & tear, water and dust proof, sleeker design



ST60 Centers & Labs

Santa Clara, CA

Grenoble, France

Seoul, Korea

Shenzhen, China

Shanghai, China

- ST RF Lab (Santa Clara)
 - ST60 customer application analysis and validation support

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