



Defang Technology

Who We Are

Defang Technology is a leading provider of voice, video and data connectivity products and solutions

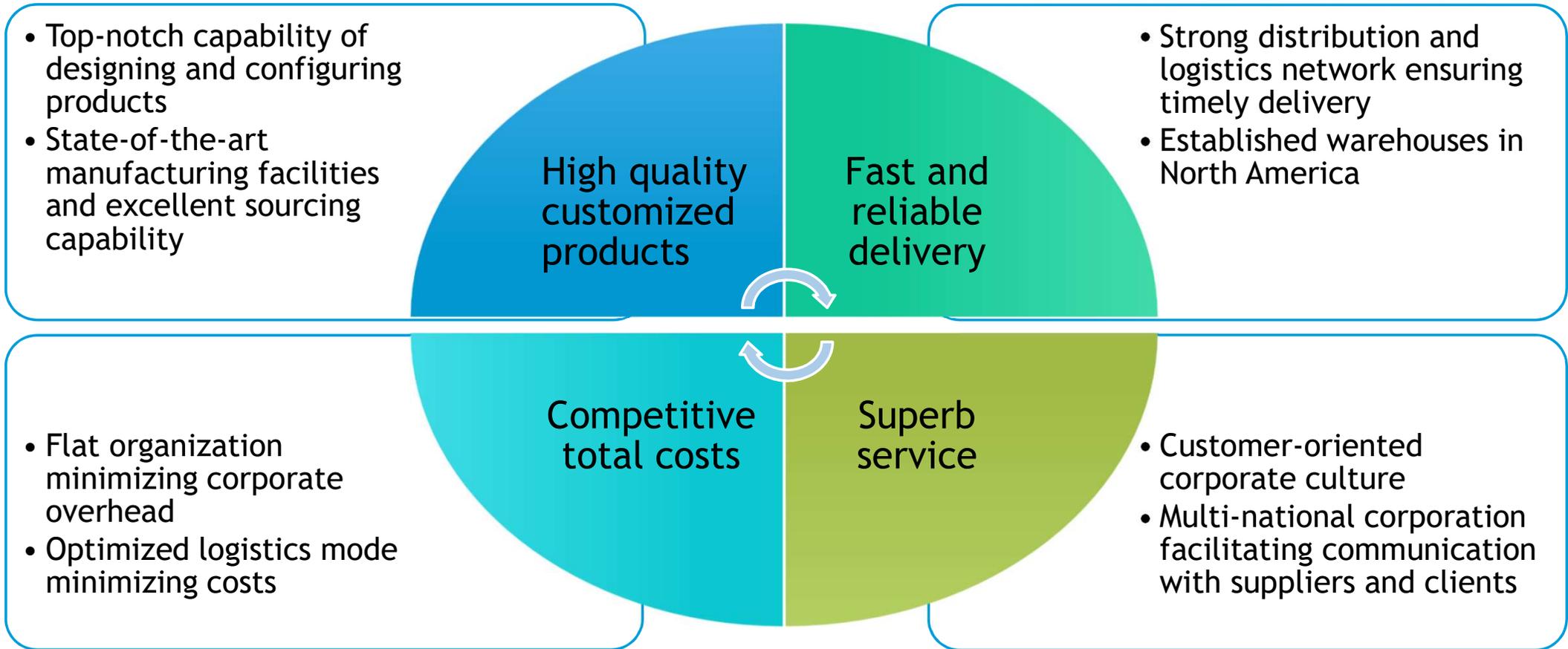
What We Do

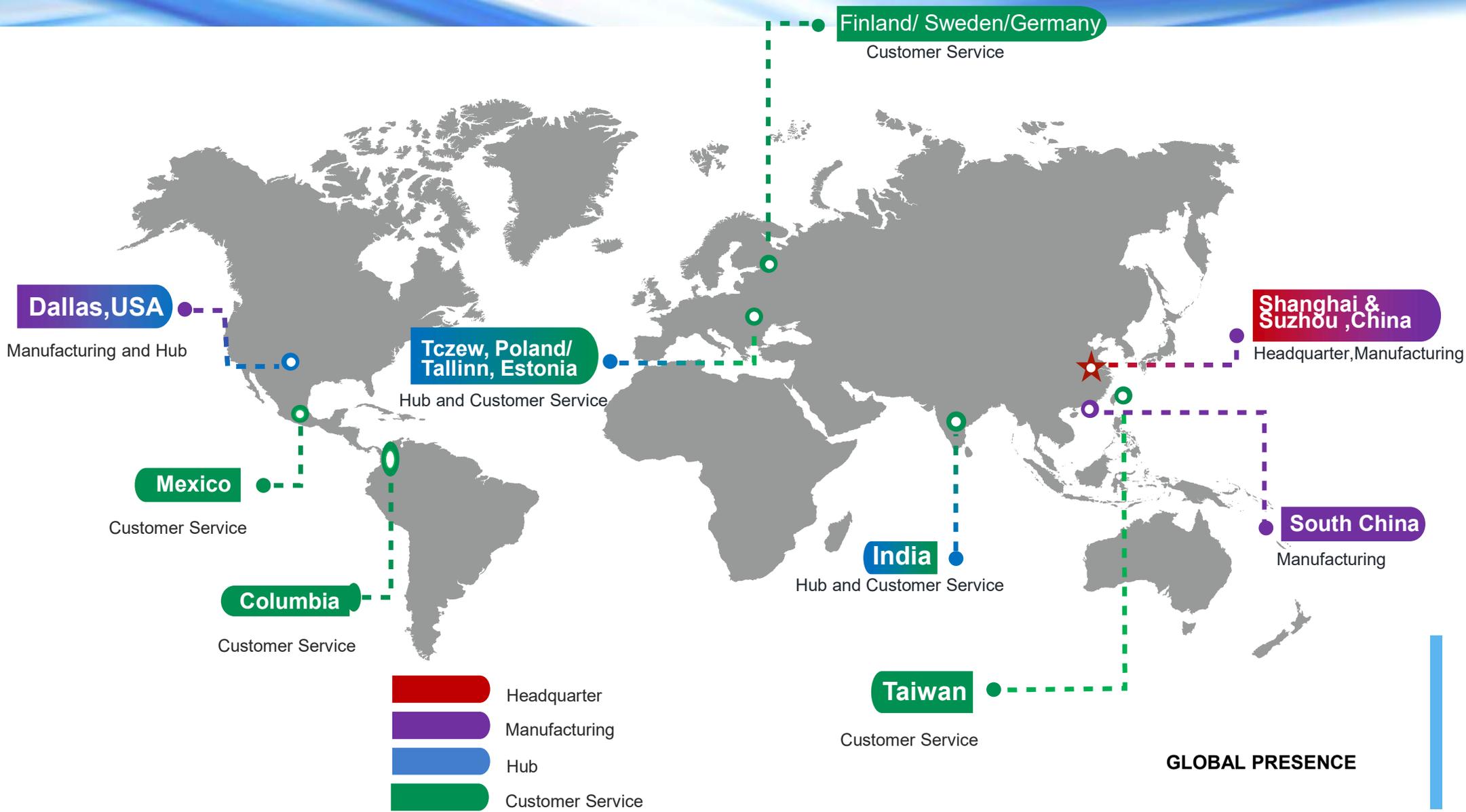
Defang serves the telecommunications, electronics and broadband data communication industries by offering a wide range of customizable connectivity products and solutions surpassing clients' requirements at optimized total costs



Ownership

- Registered in Hong Kong in 2009, Defang is a subsidiary of Shanghai Lingang Telecommunication Network Co., Ltd.
 - ✓ Specialized in telecommunication projects including both hardware and software
 - ✓ Cable TV, broadband and wireless
 - ✓ Over 15 years of experience within China
- Defang focuses on serving overseas markets, with clients in 20 countries and regions around the globe





Cable TV



Power Supply Products Introduction

- Completed Power Supply Product Line supporting all major cable TV set box brands
 - Motorola, Scientific Atlanta, RCA, Arris, AMBIT Broadband, SMC Networks, CISCO, ZTE, etc
 - Both desktop and wall type power supplies available
- Customer Choice to supply from original approved power supply manufacturer or Defang's own brand
- Approved Certificate to be used in American market (UL and CSA, etc)

HDMI Cables

- HDMI cables in all grades and length
- Generic to premium design
- Retail version also available
- Extra shielding to achieve EMI requirement
- Supporting true 4K resolution and 3D
- Supplying 1.3v, 1.4v and future 2.0v



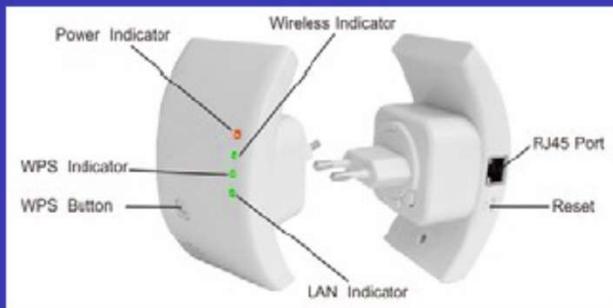
Fiber Cable Assemblies and Accessories



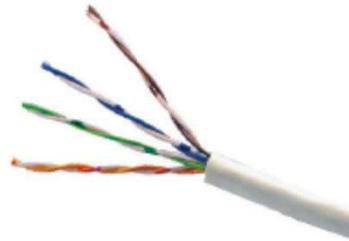
- Comprehensive Product Line
 - Defang produces a wide variety of fiber cable assemblies and accessories designed to meet the specific application needs of our customers.
- Stringent Manufacturing Processes
 - Defang's polishing techniques, rigorous evaluation of fiber glass, serialized tracking and the strictest testing processes allow us to meet some of the strictest specifications in the industry
- Quality Assurance
 - Defang uses Corning fiber glass, one of the best fiber glass in the industry. Defang tests every connector and applies a bar code traceable to the exact insertion loss and return loss for that termination.



Access Point – Wifi Products



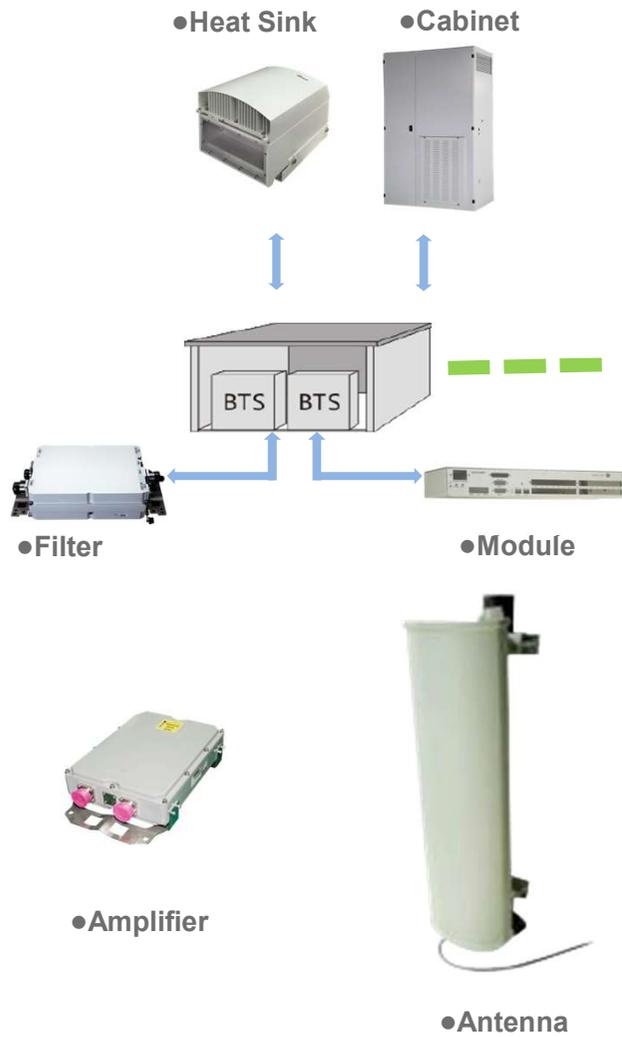
Other CATV Products



- Completed retailing package for consumer use
- Made to order per customer needs also available

Selected Clients (Over 150 Customer in American Market)

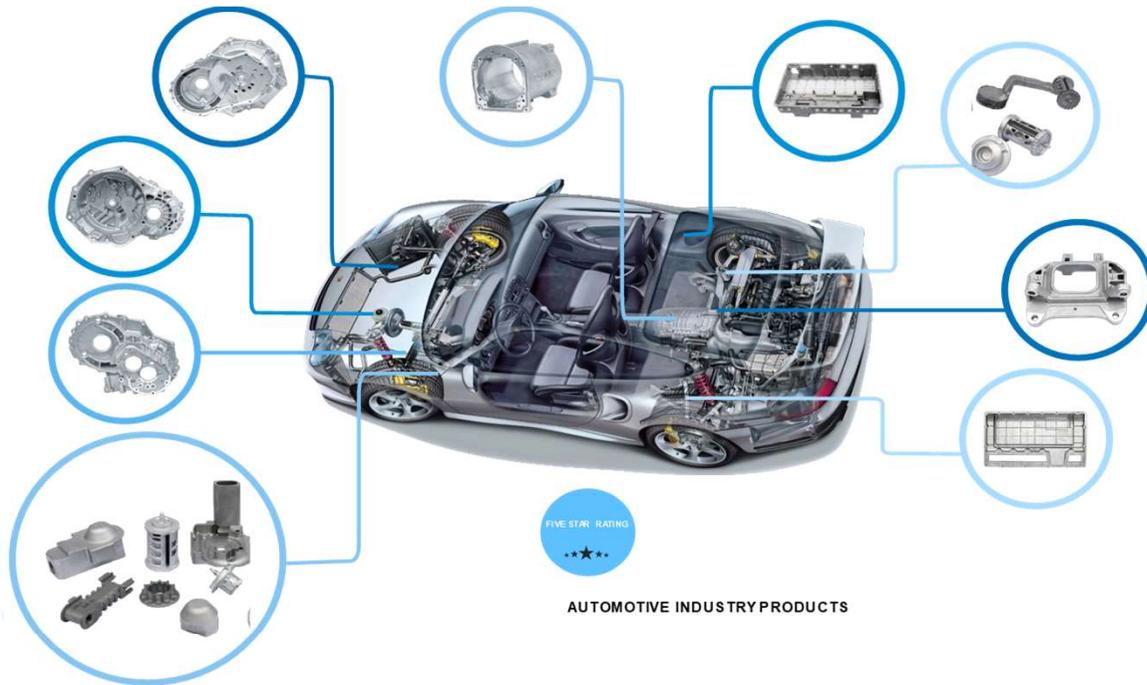




Telecommunication

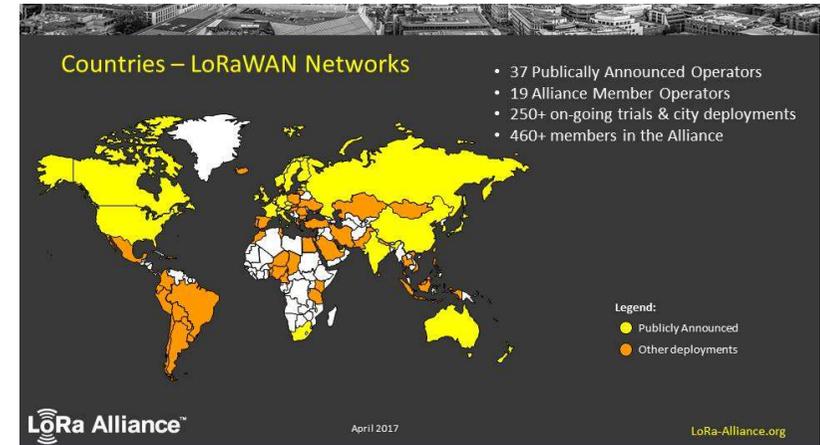
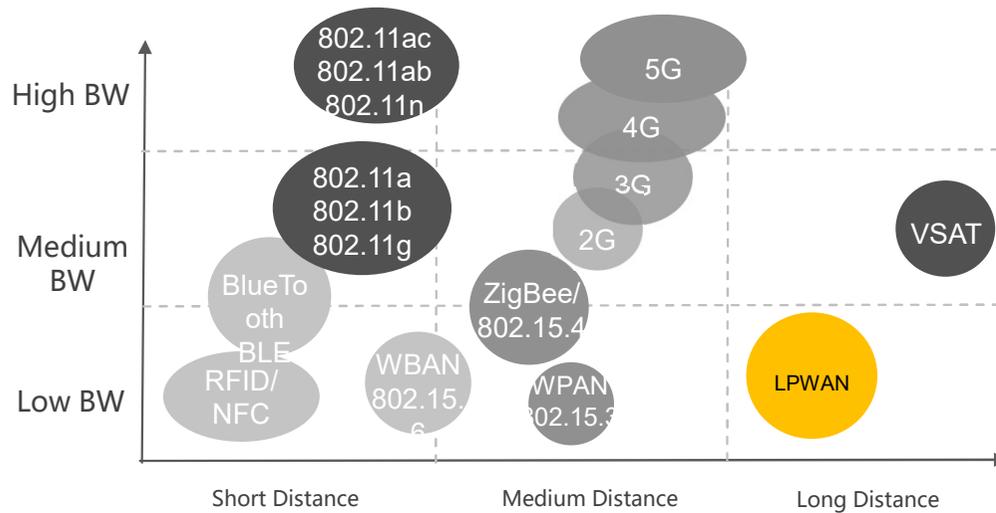


Automobile



Internet of Things (IoT)

IoT Technology Comparison



| Technology | 802.11a h | WLAN | ZigBee | LTE-M | Sigfox | LoRa |
|----------------------------|--------------------|-------------------|-------------------|---------------------------|-------------------------|-------------------------|
| Sensitivity | -106 dBm | -92 dBm | -100 dBm | -117 dBm | -126 dBm | -142 dBm |
| Link Budget | 126dB | 112dB | 108dB | 147dB | 146dB | 162dB |
| Range(O=Outdoor, I=Indoor) | O: 700m I: 100m | O: 200m I: 30m | O: 150m I: 30m | 1.7km urban 20km rural | 2km urban 20km rural | 3km urban 30km rural |
| Data Rate | 100kbps | 6Mbps | 250kbps | 1Mbps | 600bps | 37.5-0.200kbps |
| TX current consumption | 300 mA 20dBm | 350 mA 20dBm | 35 mA 8dBm | 800 mA 30dBm | 120 mA 20dBm | 120 mA 20dBm |
| Standby current | NC | NC | 0.003mA | 3.5mA | 0.001mA | 0.0018mA |
| RX current | 50mA | 70mA | 26mA | 50mA | 10mA | 10mA |
| Battery life 2000mAh | | | | 18 months | 90 months | 105 months |
| Localization | no | 1-5m | no | 200m | no | 10-20m |
| Interference Immunity | moderate | moderate | bad | moderate | bad | good |
| Network Type | Star | Star | Mesh | Star | Star | Star |



The Defang (LPWAN) Difference

- Uses LPWAN to transmit sensor data to Gateways
- LPWAN doesn't suffer drop outs
- Long Reach 20km+ in wide-open spaces
- Low Energy - Allowing for 10+ year battery life
- Listen-before-talk- technology allows data transfers at most opportune times



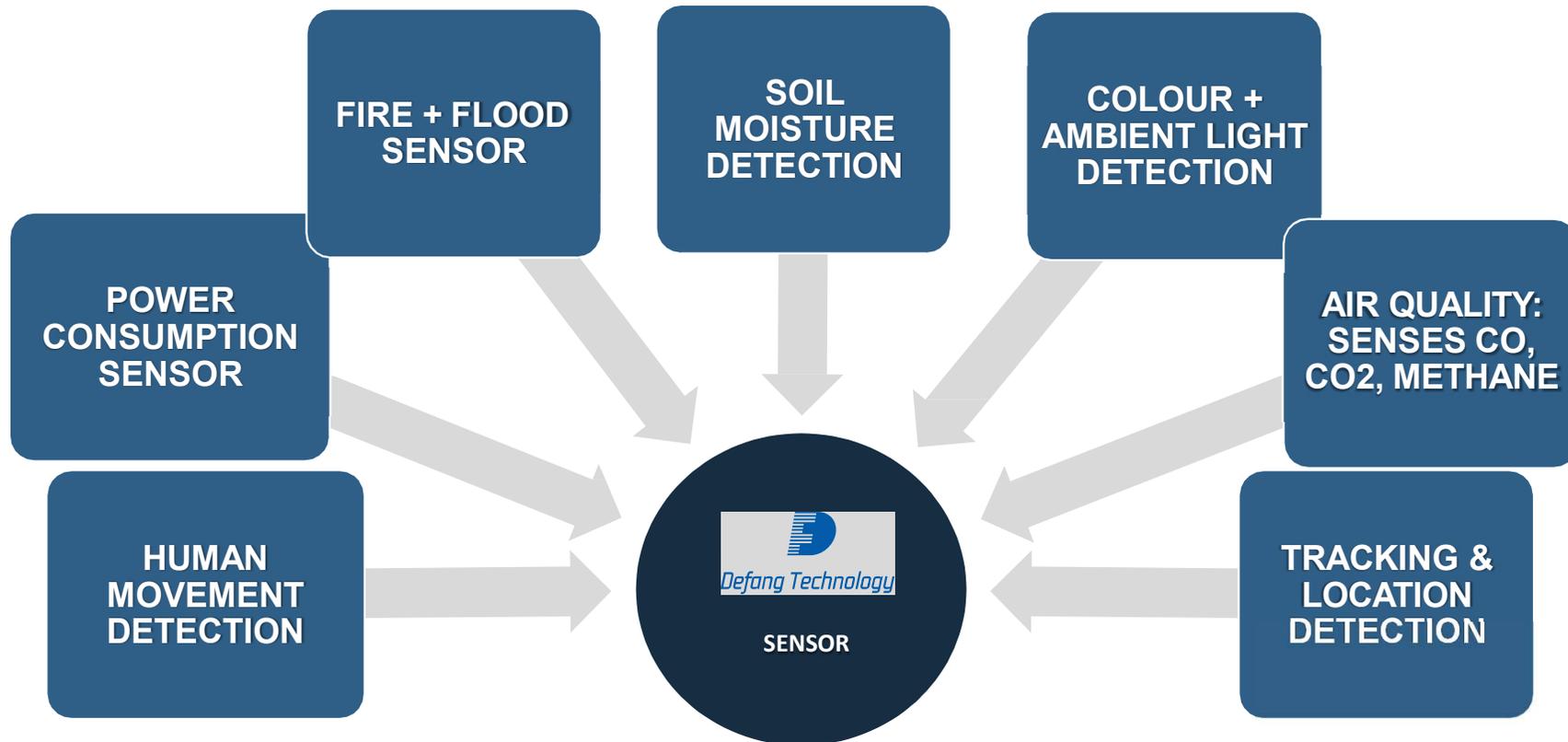
HARDWARE



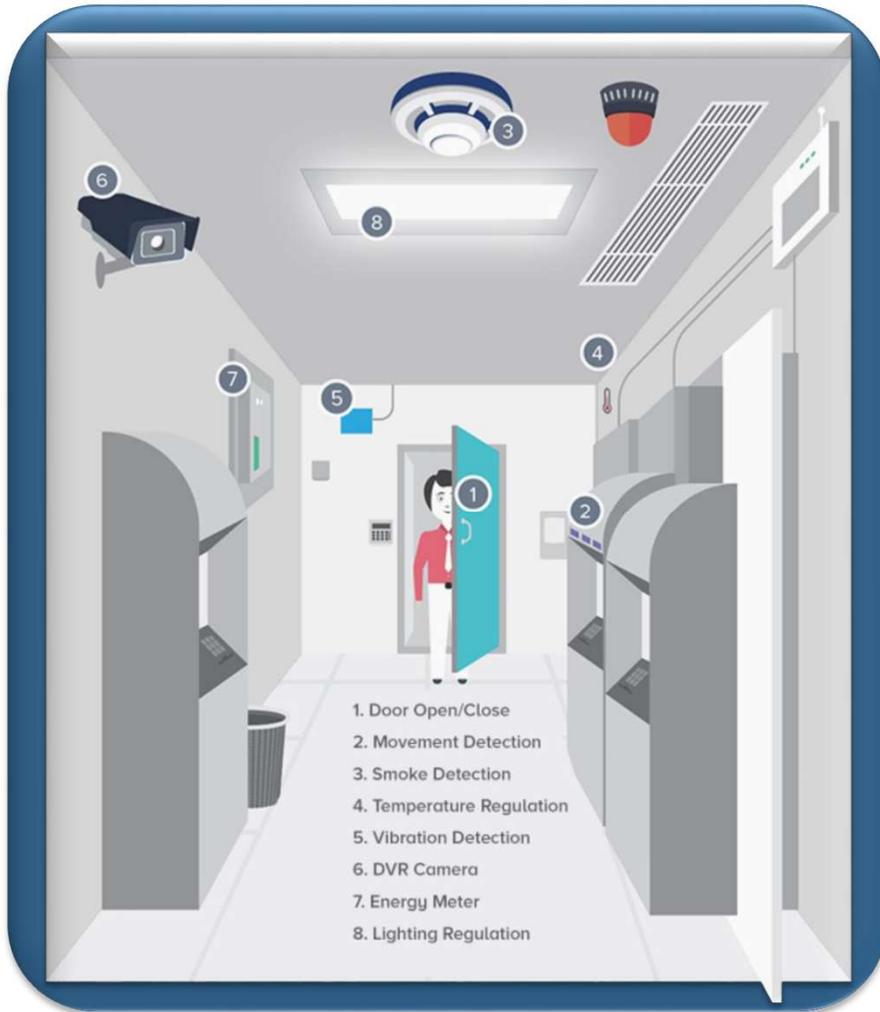
SOFTWARE



CLOUD + REPORTING SERVICES



Applications



CONNECTING SMART HOMES

- **Movement Detection** (*Home Security*)
- **Smoke & Fire Detection** (*Insurance*)
- **Temperature Regulation** (*Cost Effective*)
- **Energy Meter** (*Environmentally Friendly*)
- **Smart Lighting** (*Home Comfort*)





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