

WG7Axx-01

TI Wi-Fi 6/6E + BLE 5.3 Module

pin-to-pin compatible with WG7837-V0 (TI WL1837MOD)

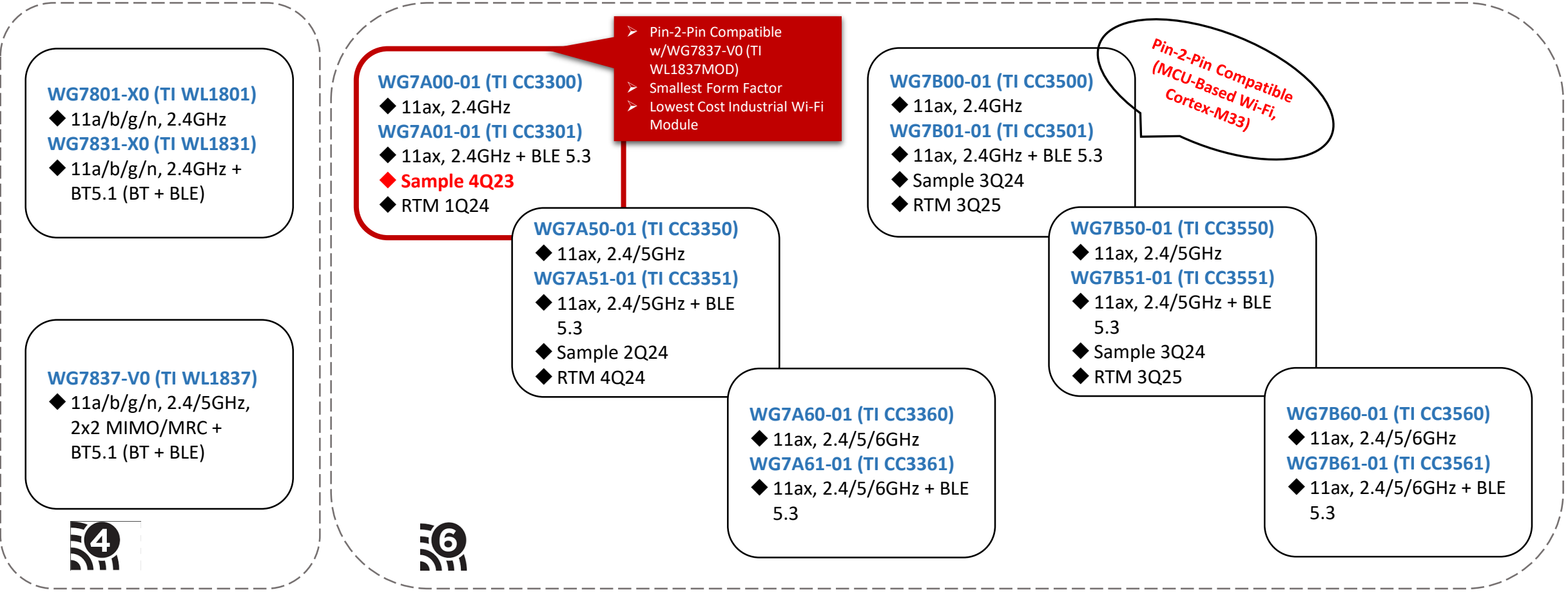
Nov. 2023

IoT Wi-Fi Module Portfolio



Wireless Transceiver Module

Wireless MCU Module



WG7801-X0 (TI WL1801)
 ◆ 11a/b/g/n, 2.4GHz
WG7831-X0 (TI WL1831)
 ◆ 11a/b/g/n, 2.4GHz + BT5.1 (BT + BLE)

WG7837-V0 (TI WL1837)
 ◆ 11a/b/g/n, 2.4/5GHz, 2x2 MIMO/MRC + BT5.1 (BT + BLE)

WG7A00-01 (TI CC3300)
 ◆ 11ax, 2.4GHz
WG7A01-01 (TI CC3301)
 ◆ 11ax, 2.4GHz + BLE 5.3
 ◆ **Sample 4Q23**
 ◆ RTM 1Q24

> Pin-2-Pin Compatible w/WG7837-V0 (TI WL1837MOD)
 > Smallest Form Factor
 > Lowest Cost Industrial Wi-Fi Module

WG7A50-01 (TI CC3350)
 ◆ 11ax, 2.4/5GHz
WG7A51-01 (TI CC3351)
 ◆ 11ax, 2.4/5GHz + BLE 5.3
 ◆ Sample 2Q24
 ◆ RTM 4Q24

WG7A60-01 (TI CC3360)
 ◆ 11ax, 2.4/5/6GHz
WG7A61-01 (TI CC3361)
 ◆ 11ax, 2.4/5/6GHz + BLE 5.3

WG7B00-01 (TI CC3500)
 ◆ 11ax, 2.4GHz
WG7B01-01 (TI CC3501)
 ◆ 11ax, 2.4GHz + BLE 5.3
 ◆ Sample 3Q24
 ◆ RTM 3Q25

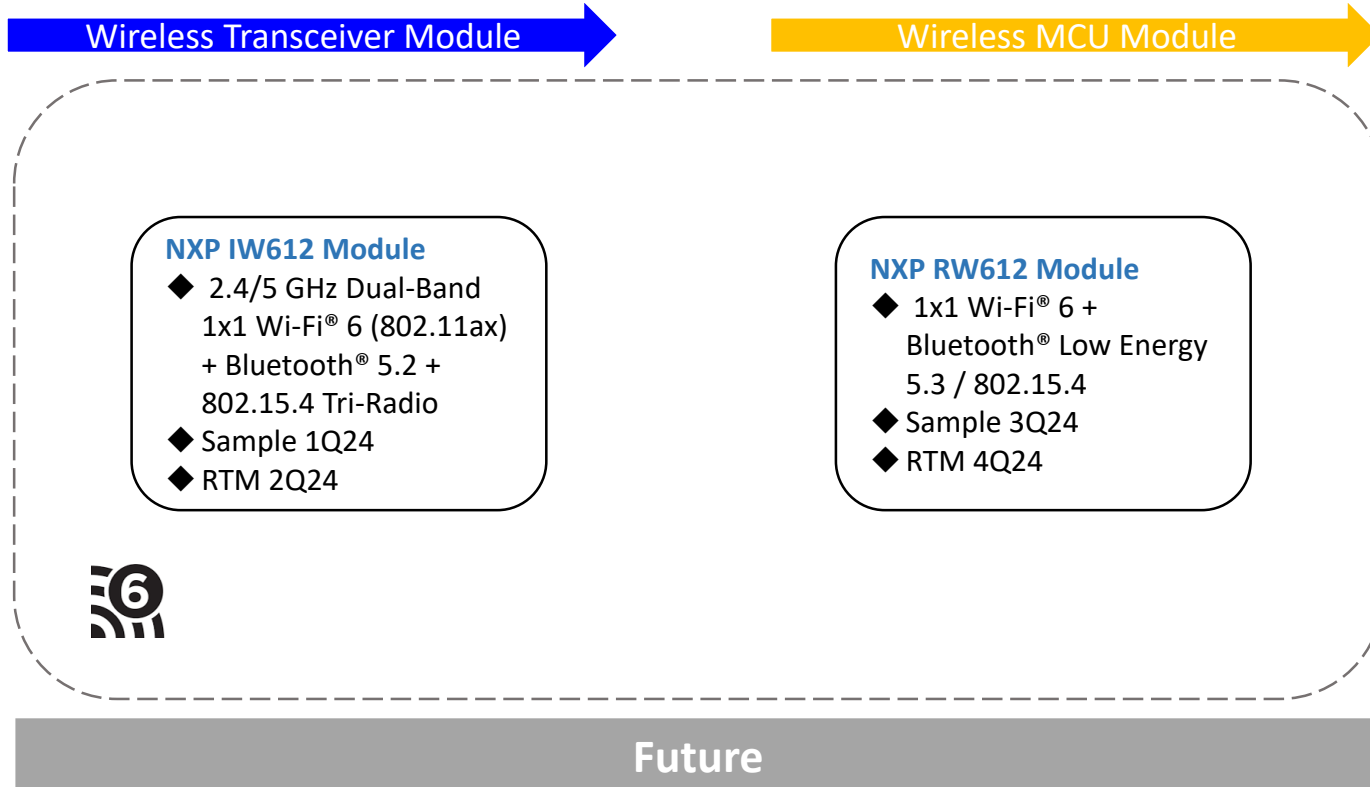
Pin-2-Pin Compatible (MCU-Based Wi-Fi, Cortex-M33)

WG7B50-01 (TI CC3550)
 ◆ 11ax, 2.4/5GHz
WG7B51-01 (TI CC3551)
 ◆ 11ax, 2.4/5GHz + BLE 5.3
 ◆ Sample 3Q24
 ◆ RTM 3Q25

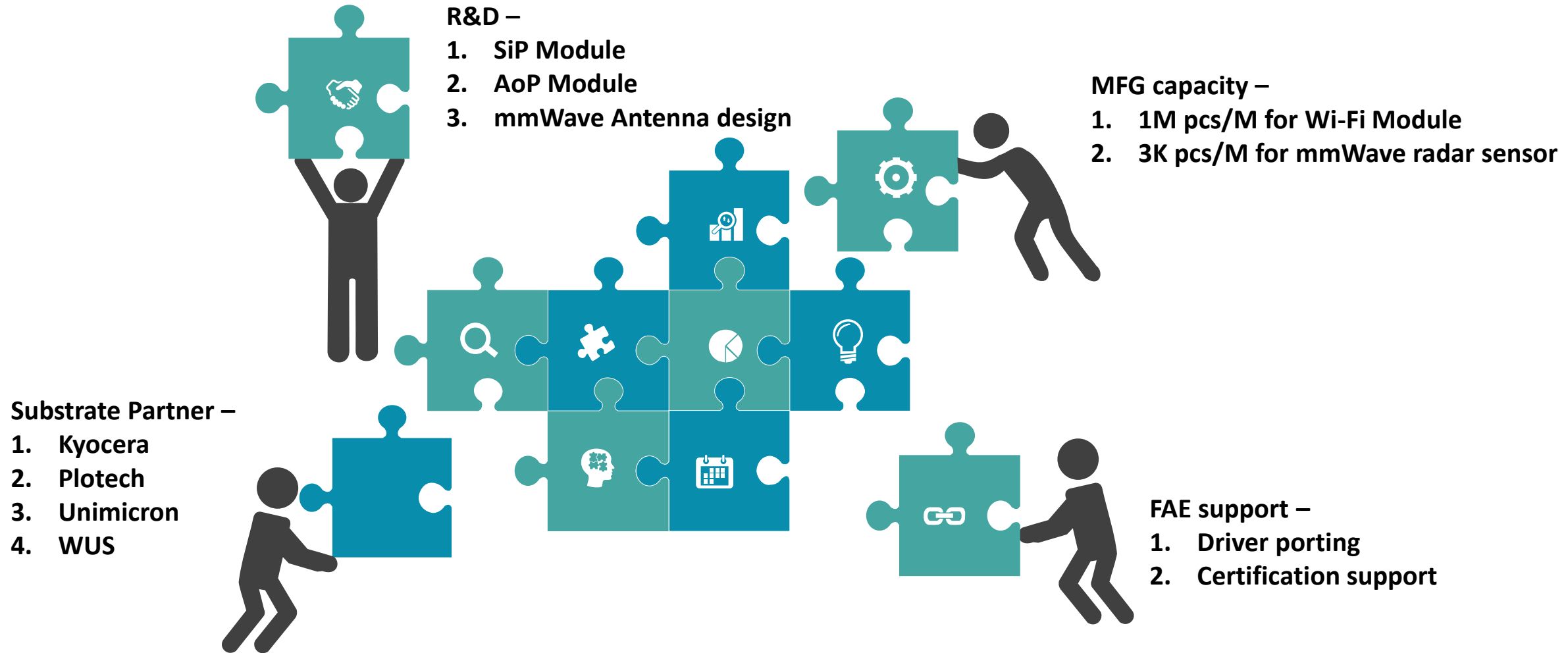
WG7B60-01 (TI CC3560)
 ◆ 11ax, 2.4/5/6GHz
WG7B61-01 (TI CC3561)
 ◆ 11ax, 2.4/5/6GHz + BLE 5.3

Released

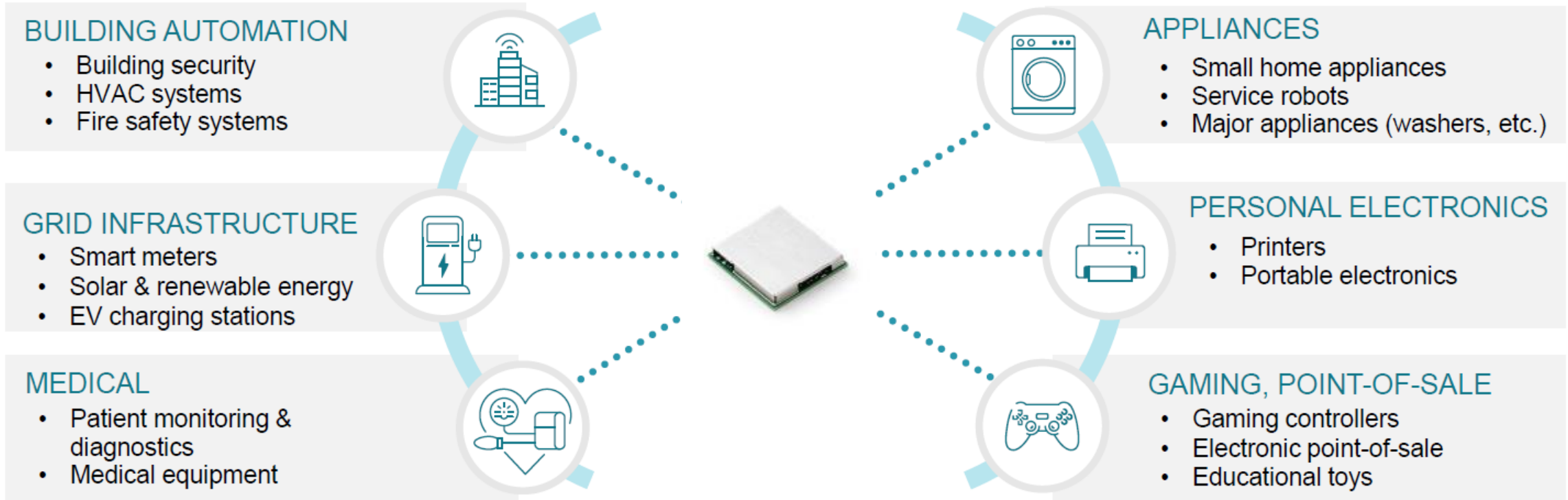
Future



Our Values for Wireless Connectivity

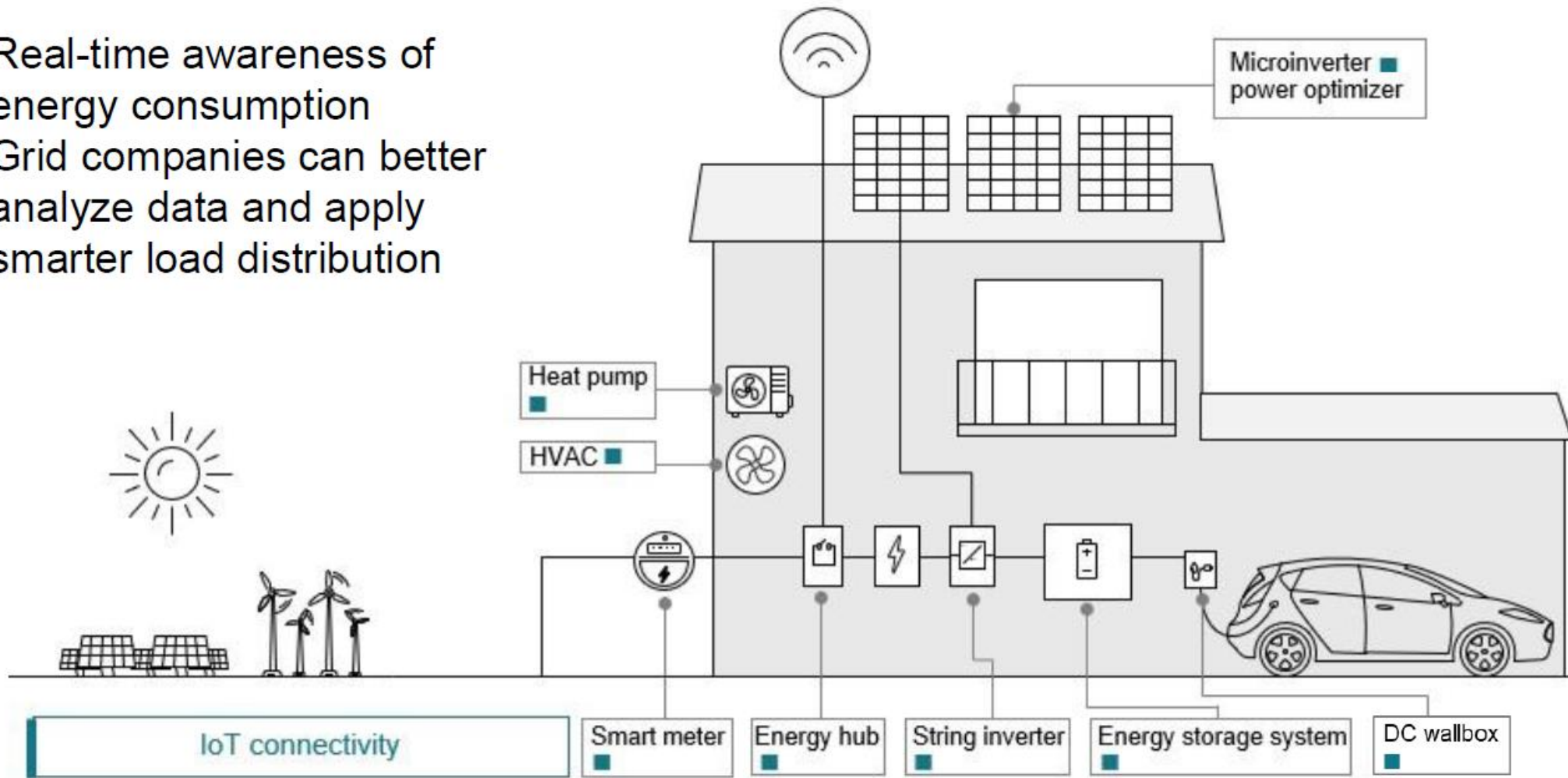


Using Wi-Fi technology in IoT applications



Smarter energy management with Wi-Fi

- Real-time awareness of energy consumption
- Grid companies can better analyze data and apply smarter load distribution





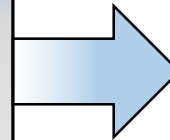
Reliable and secure IoT Wi-Fi portfolio evolution

Available: Wi-Fi 4 (802.11 a / b / g / n)
Reliable performance and embedded security

Next Gen: **Wi-Fi 6/6E** (802.11 ax) for Industrial IoT
Cutting edge, design flexibility, affordable solutions
Pin-to-Pin Compatible with **WG7837-V0** (TI WL1837MOD)

WG78xx (2.4/5GHz), Wi-Fi 4 & BT SiP Module

- ◆ Chipset: TI WL18xx
- ◆ WLAN: IEEE 802.11 a/b/g/n & BT 5.1
- ◆ Dimension: 13.3 mm x 13.4 mm x 2.0 mm
- ◆ Operating Temperature: -40°C ~ 85°C
- ◆ Interface: SDIO/UART



WG7A0x/WG7A5x/WG7A6x (2.4/5/6GHz), Wi-Fi 6/6E & BLE 5.3 SiP Module

- ◆ Chipset: TI CC33xx
- ◆ WLAN: IEEE 802.11 a/b/g/n/ax & BLE 5.3
- ◆ Dimension: 13.3 mm x 13.4 mm x 2.0 mm
- ◆ Operating Temperature: -40°C ~ 85°C
- ◆ Interface: SDIO/UART
- ◆ Certification (Planned): CE/FCC/IC/TELEC



Discover featured applications	Building Automation - Video doorbell, Building security gateway	Medical - Ultrasound smart probe, Telehealth systems, Infusion pump	Major and Small Home Appliances - Thermostat	Solar and Energy Storage - Power conversion system (PCS)
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Feature & Specification

- Highly optimized Wi-Fi 6 and BLE 5.3 system for low cost embedded IoT applications
- Multirole support e.g. STA and AP to connect directly with other Wi-Fi devices on different RF channels (Wi-Fi networks)
- External coex interface to connect to Thread/Zigbee radio
- Application throughput up to 50 Mbps
- Temperature range: -40~85° C, Package LGA-100
- Dimensions: 13.3 mm (L) x 13.4 mm (W) x 2.0 mm (H)
- Certification (Planned): CE/FCC/IC/TELEC

What we can do:

- EVB user guide=application note
- Linux Wi-Fi driver porting guide
- RTOS Wi-Fi driver porting guide
- Certifiable solution

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Thank you!

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