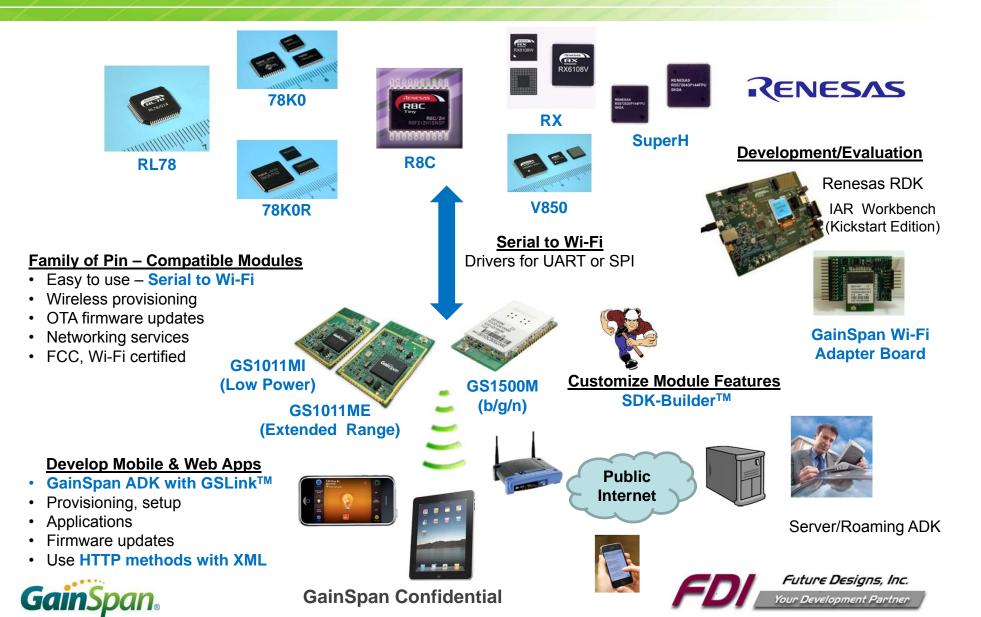
GainSpan Solution for Renesas MCU Families



Renesas- MCU's support



- □ Wi-Fi Adapter Board plugs into multiple Renesas RDK's
 - Two connectors PMOD plus Legacy RDK Application Header
- ☐ Drivers being developed to support Renesas MCUs
 - RX, V850, SuperH, RL78, R8C, 78K0, 78K0R
 - Small footprint drivers for UART and SPI
 - Work with IAR Workbench- Kickstart Edition (Free version)
 - Multiple demos being developed using sensors available on RDK
 - Temperature, Light, Acceleration





Renesas- Driver Development

MCU	IF	Арр	IDE	Availability
RL78	UART/SPI	S2W	IAR	Now
RX62	UART/SPI	S2W	IAR/ HEW	Now
RX63	UART/SPI	S2W	IAR/ HEW	Nov
78K0, 78K0R	UART/SPI	S2W	IAR	Dec
R8C	UART/SPI	S2W	IAR	Nov
SuperH	UART/SPI	S2W	HEW	Now
V850	UART/SPI	S2W	IAR	Dec





Renesas- Wi-Fi Adapter Board





□ Wi-Fi Adapter Board developed by FDI

- Two versions:
 - WAB –GW-GS1011MIP (802.11b, ultra low power, lower price module)
 - WAB-GW-GS1500M (802.11 b/g/n)
- Retail packaged version for Digi-Key stocking or Renesas support
- Jumper for measuring current, selecting SPI/ UART
 - Currently two separate drivers
- Switches for Reset and Factory Restore
- Built-in external flash for reliable over the air firmware upgrade, factory restore configuration as well as data storage such as for web pages.





Renesas- Demo Development

□ Demonstrable Features

- By default will be set in Limited AP provisioning mode
 - Showing embedded web pages
- Could be provisioned as Client through provisioning or WPS
 - WPS demonstrated by pushing button on RDK
- Client/ server
 - UDP, TCP, HTTP(S) post/ get
 - Posting RDK sensor data on Pachube
- OTA FW upgrade
- Low power consumption

□ Next Phase

- Posting sensor data on PC, iPhone, Android
 - XML based messages
- Home healthcare demo



