

SECURE, OUT-OF-THE-BOX WIRELESS IOT MEETS AWS



The Sentrius™ IG60 Gateway with AWS IoT Greengrass is the best way to gather actionable IoT intelligence from your products. Enable just-in-time maintenance, capture wireless and wired sensor data, and so much more with the IG60 that's specifically made to simply connect out-of-the-box, via high-performance Wi-Fi, to the AWS IoT Greengrass Edge and speed your IoT application to market.

Our pre-configured AWS IoT Greengrass sandbox is built with security and stability at the forefront. Hardware root of trust and secure boot ensure only trusted software runs on the device. Additionally, the IG60's rugged 802.11ac 2x2 MIMO Wi-Fi is reliable even in most challenging RF environments.

Easily write scripts in AWS and execute across hundreds of devices. Set triggers and actions to address problems before they escalate. And do it all with confidence that your device is secure and stable with Laird-issued OTA updates. The IoT has never been easier.

- **Best-in-Class Wi-Fi Performance** – 2x2 MIMO 802.11ac Wi-Fi supports more robust wireless connections via additional spatial streams
- **Multiple Ways to Connect** – Wi-Fi, Bluetooth 5, Ethernet, Serial, and USB interfaces available, with CAT-1 LTE connectivity coming soon
- **Easy to Configure** – Our smartphone app easily connects the IG60 to Wi-Fi and creates an AWS IoT Greengrass core in your environment
- **Enterprise Security at the Core** – Laird's Chain of Trust Architecture uses signed hardware and software keys and a secure filesystem to ensure only trusted software runs on the device
- **Continuous OTA Updates** – Laird keeps IG60s continuously patched from security vulnerabilities with over-the-air updates
- **Easy to Deploy and Control** – AWS IoT Greengrass makes deploying and managing devices easy, with integrated scripting for applications
- **Local Backup Storage Options** – Onboard SD Micro slot provides the necessary storage to record data long-term on the device
- **Worldwide Regulatory Approvals** – Radio Certified for FCC, IC, and CE, and Hardware Certified by UL, CE, and IEC

FEATURES AT A GLANCE

 **RUGGED CONNECTIVITY WITH MANY INTERFACES**
Gather data via Bluetooth 5, Ethernet, Serial, and USB, and then send it over high-performance 2x2 MIMO 802.11ac Wi-Fi to the cloud.

 **SIGNED AND SECURED AT EVERY LAYER**
Our Chain of Trust architecture creates secure devices that only run approved software and with secured file systems.

 **READY IN MINUTES FOR QUICK DEPLOYMENT**
Connect to Wi-Fi via our smartphone app and start transmitting live data to AWS within minutes.

 **OVER-THE-AIR UPDATES FOR REALTIME SECURITY**
Laird monitors and patches for security exploits and deploys fixes to your gateway, so you're always ahead of vulnerabilities

 **GLOBAL CERTIFICATIONS**
Regulatory compliance for FCC, IC, CE, as well as UL hardware certification and Bluetooth SIG Qualification

 **INDUSTRY-LEADING SUPPORT**
Laird's Tier 2 and FAE support bring expert assistance to your integration, working with you and our engineering team to reduce your time to market.



APPLICATION AREAS



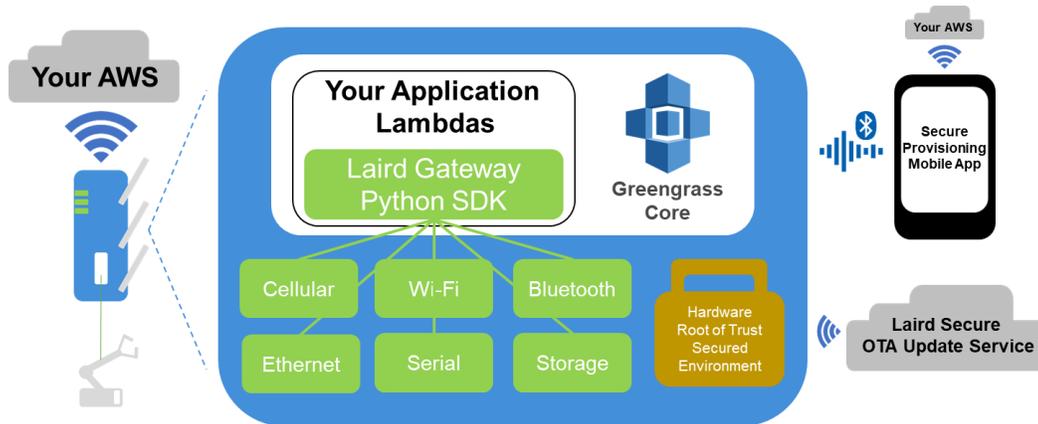
Machine Condition Monitoring



Industrial Devices and Sensors



Healthcare and Medical Devices



SPECIFICATIONS

Modular SoM Core	MPU	Atmel/Microchip SAMA5D36 Cortex A5, 536 MHz
	Wireless Interface	Marvell 88W8997/88PG823
	RAM	256 MB LPDDR RAM
	Flash Storage	512 MB NAND Flash
External Interfaces	Serial	1x DB9 RS232/422/485 w/ 1.5 KV isolation with support for Modbus (master, slave, sniffer) and proprietary protocols
	Ethernet	1x 10/100 Mbit/s 1x 10/100/1000 Mbit/s with IEEE 1588
	USB	1x USB 2.0 Host
	SD Card	1x MicroSD slot (SDHC, SD Card 2.0) for additional external storage
	Antenna Port	2x SMA Connector
Wireless Interfaces	Wi-Fi	802.11ac with 2x2 MU-MIMO
	Bluetooth	Bluetooth 5 (LE Coded PHY coming soon)
	LTE	Cat-1 LTE (coming soon)
Security	Standards	WEP, WPA, WPA2
	Dynamic	802.1X Extensible Authentication Protocol Types (EAP-FAST, EAP-TTLS, PEAP-GTC, PEAP-MSCHAPv2, LEAP)
	Chain of Trust Architecture	Secure boot, hardware root-of-trust, encrypted file systems, cryptographic accelerator
	Updates	Continuous over-the-air updates from Laird for 3-years
Software	Operating System	Laird Linux
	IoT Platform Support	Amazon Web Services (AWS) with integrated support for AWS IoT Greengrass
	Provisioning	Connect to Wi-Fi with companion smartphone app for Android and iOS
Physical	Dimensions	85mm x 22mm 100mm
Contents	Box Contents	DIN-rail and wall mount bracket, power adapter, serial loopback adapter, 2x SMA antennas
Environmental	Operating Temperature	-30° to +85°C (-22° to +185°F)
	Relative Humidity	0-95% Non-condensing
	Mounting	DIN-rail or wall mount
Electrical	Input Voltage	9-30 V DC
Certifications	RF Approvals	FCC / IC / CE (pending)
	Hardware	CE, UL/IEC62368-1 (pending)

For full specifications on the IG60, please see the appropriate datasheet.

ORDERING INFORMATION

Part	Description
455-00008	Sentrius™ IG60 Gateway Starter Kit with AWS IoT Greengrass-Enabled Software Build