Itron Edge Gateway

Secure Connectivity and Distributed Intelligence for Industrial IoT Applications

The Itron Edge Gateway is a versatile, highly secure edge computing platform that enables intelligent industrial IoT (IIoT) connectivity with LTE, PLTE and 5G cellular and Itron's Gen™5 Mesh communications between field devices and back-office systems. The Edge Gateway also delivers advanced distributed intelligence to enable a wide range of critical infrastructure applications, including Distribution Automation (DA), Distributed Energy Resource Management (DERM), and Smart Cities. The Edge Gateway can connect, monitor, and manage clusters of new and existing devices or sensors using multiple data interfaces including Ethernet, Serial, and Mesh. Itron provides our customers and partners access to a convenient development environment where they can test and trial their own edge computing applications or download certified apps from a secure Itron hosted repository.

Aggregate data from the edge across multiple interfaces

» The flexibility of 4G LTE, PLTE and 5G cellular, IP, Gen™5 Mesh and legacy interfaces.

» Advanced networking, routing, security, and tunnelling protocols.

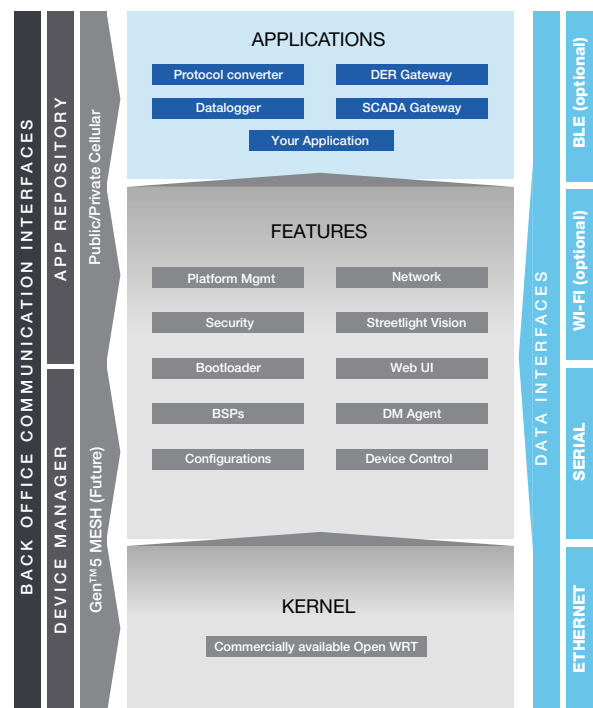## Manage network, devices, and applications at scale

» Local or back-office device management and monitoring.

» Over-the-air device firmware and application updates.

Enable various edge applications through distributed intelligence

» Reduce network traffic with on-board standard Linux computing for localized application processing and storage.

» Commercially supported Open WRT OS with containerized application capability accelerates edge applications on a secure, open and scalable platform.

Robust, advanced partner ecosystem

» Open, standard-based architecture supports agile development of groundbreaking applications.

» Provides partner program and test environment to support applications development.

BACK OFFICE COMMUNICATION INTERFACES

APP REPOSITORY

DEVICE MANAGER

Public/Private Cellular

Gen™5 MESH (Future)

APPLICATIONS

Protocol converter	DER Gateway
Datalogger	SCADA Gateway
Your Application	

FEATURES

Platform Mgmt	Network
Security	Streetlight Vision
Bootloader	Web UI
BSPs	DM Agent
Configurations	Device Control

KERNEL

Commercially available Open WRT

DATA INTERFACES

BLE (optional)

WI-FI (optional)

SERIAL

ETHERNET

SPECIFICATIONS

	Model 6000 Entry Level	Model 6100 Single Radio Economy	Model 6200 Dual Radio Critical Communications	Model 6300 Outdoor with Integrated Antenna
Compute		**Operating System:** Commercially Supported OpenWRT **CPU:** i.MX8 64b Quad Core ARM Cortex A53 1.6 GHz **RAM:** 1 GB lpddr4x RAM **Flash Memory:** 8GB eMMC		
Device Management		Remote provisioning Local management and monitoring OTA firmware and Application update capability		
Security		Certificate based identity End-to-end data and network layer encryption FIPS 197 compliant Secure boot, secure element, full disk encryption		
Communications	4G/LTE and Private LTE Cat 7 private network	4G/LTE and Private LTE Cat 7 private network	4G/LTE and Private LTE Cat 7 private network	4G/LTE and Private LTE Cat 7 private network
	-	-	4G/LTE Cat1+	-
	-	GNSS (GPS/ GLONASS/GALILEO)	GNSS (GPS/ GLONASS/GALILEO)	-
Networking		DHCP IPv6/IPv4 addressing TCP/UDP/Serial interfaces for Modbus & DNP3		
Environmental	**Operating temperature:** -40°C to +70°C vented cabinet -40°C to +85°C with active cooling accessory Type tested 16 hrs -40°C to +85°C no airflow	**Operating temperature:** -40°C to +70°C vented cabinet -40°C to +85°C with active cooling accessory Type tested 16 hrs -40°C to +85°C no airflow	**Operating temperature:** -40°C to +70°C vented cabinet -40°C to +85°C with active cooling accessory Type tested 16 hrs -40°C to +85°C no airflow	**Operating temperature:** -40°C to +80°C IP67 cabinet with integrated Antenna
		Humidity: 5% to 95% non-condensing		
Interfaces	1 x serial (RS-232)	2 x serial ports (RS-232 & RS-485)	2 x serial ports (RS-232 & RS-485)	1 x Ethernet R-J45 (10/100/1000)
	1 x Ethernet RJ-45 (10/100/1000)	Power over Ethernet (PoE In)	Power over Ethernet (PoE In)	-
	-	2 x Ethernet R-J45 (10/100/1000)	2 x Ethernet R-J45 (10/100/1000)	Power over Ethernet (PoE In)
Power	10-60VDC 4W maximum	10-60VDC 4W maximum	10-60VDC 12W maximum	10-60VDC 4W maximum

DIMENSIONS

	Model 6000 Entry Level	Model 6100 Single Radio Economy	Model 6200 Dual Radio Critical Communications	Model 6300 Outdoor with Integrated Antenna
Width	11.68 cm (4.6 in)	11.68 cm (4.6 in)	11.68 cm (4.6 in)	30.48 cm (12.00 in)
Depth	11.63 cm (4.58 in)	11.63 cm (4.58 in)	11.63 cm (4.58 in)	30.48 cm (12.00 in)
Height	3.76 cm (1.48 in)	3.76 cm (1.48 in)	3.76 cm (1.48 in)	7.87 cm (3.10 in)

Join us in creating a more **resourceful world**.
To learn more visit **itron.com**

CORPORATE HQ

2111 North Molter Road
Liberty Lake, WA 99019 USA

Phone: 1.800.635.5461
Fax: 1.509.891.3355