Itron Edge Gateway 5G

5G NR Sub 6GHz Secure Connectivity and Distributed Intelligence for Industrial IoT Applications

The Itron Edge Gateway is a versatile, highly secure edge computing platform that offers intelligent industrial IoT (IIoT) connectivity for 5G public and private cellular networks, enabling secure and reliable 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 itron's proprietary Gen™5 LPWAN 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 5G NR Sub 6 cellular with 4G fallback, IP, Gen™5 Mesh and legacy interfaces.

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

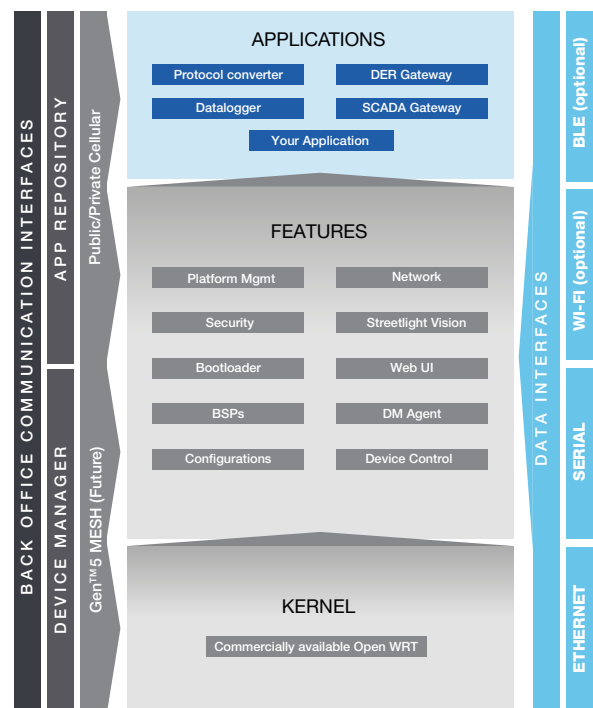### Manage network, devices, and applications at scale

» 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 7100 Single Radio Economy	Model 7200 Dual Radio Critical Communications	Model 7300 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	5G NR Sub 6 4G/LTE Fallback eSIM / eUICC	5G NR Sub 6 4G/LTE Fallback eSIM / eUICC	5G NR Sub 6 4G/LTE Fallback eSIM / eUICC
	-	4G/LTE Cat1+ Low latency failover	-
	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 no airflow -40°C to +85°C with active cooling accessory IP67 cabinet with integrated antenna
	Humidity: 5% to 95% non-condensing		
Interfaces	2 x serial ports (RS-232 & RS-485)	2 x serial ports (RS-232 & RS-485)	-
	Power over Ethernet (PoE In)	Power over Ethernet (PoE In)	Power over Ethernet (PoE In)
	2 x Ethernet RJ-45 (10/100/1000)	2 x Ethernet R-J45 (10/100/1000)	1 x Ethernet R-J45 (10/100/1000)
Power	10-60VDC 4W maximum	10-60VDC 12W maximum	PoE

DIMENSIONS

	Model 7100	Model 7200	Model 7300
Width	13.61 cm (5.36 in)	13.61 cm (5.36 in)	30.48 cm (12.00 in)
Depth	13.16 cm (5.18 in)	13.16 cm (5.18 in)	30.48 cm (12.00 in)
Height	5.08 cm (2.00 in)	5.08 cm (2.00 in)	7.87 cm (3.10 in)

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