

# SNAPconnect E20

## SNAP-Enabled Gateway

### Powered by Ubuntu - Easy to Customize

The **SNAPconnect E20 Gateway** is an embedded Ubuntu Linux computer with the flexibility to add custom or 3rd party software as needed for local databases, IoT platform clients, or other elements. It bridges SNAP edge networks over Ethernet, WiFi, or optional USB connectivity devices such as cell modems, Bluetooth, or Wi-Fi adapters.

Powered by Freescale's i.MX 6 processor, the E20 has ample computing power, reliable connectivity options, and a hardened industrial temperature range design making it the ideal networking gateway for large-scale IoT deployments.

### Start Quickly with Included Tools

Custom programs can be created with the help of SNAPconnect software libraries making communications with IoT devices in edge networks easy, even in challenging environments.

### Protect your Deployment

SNAPconnect Gateways emphasize security using AES-128 to encrypt edge network traffic, and standard Linux security tools to secure the backhaul network. SNAP Thing Services utilizes tools like TLS and HTTPS to secure outbound interfaces.



### Features:

- SNAPconnect ready
- Ubuntu Linux pre-loaded
- Freescale i.MX 6 featuring ARM® Cortex-A9 architecture (800 MHz)
- 4GB NAND Flash
- 512MB DDR3 RAM
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- Wi-Fi networking (2.4GHz, IEEE 802.11 b/g/n)
- 10/100 Ethernet port
- USB 2.0 Type-A (host)
- USB Micro-B (serial)
- Models with FCC/ISED/cULus and CE certifications
- -40°C to +70°C operating temperature (UL certified for +65°C maximum operating temperature)



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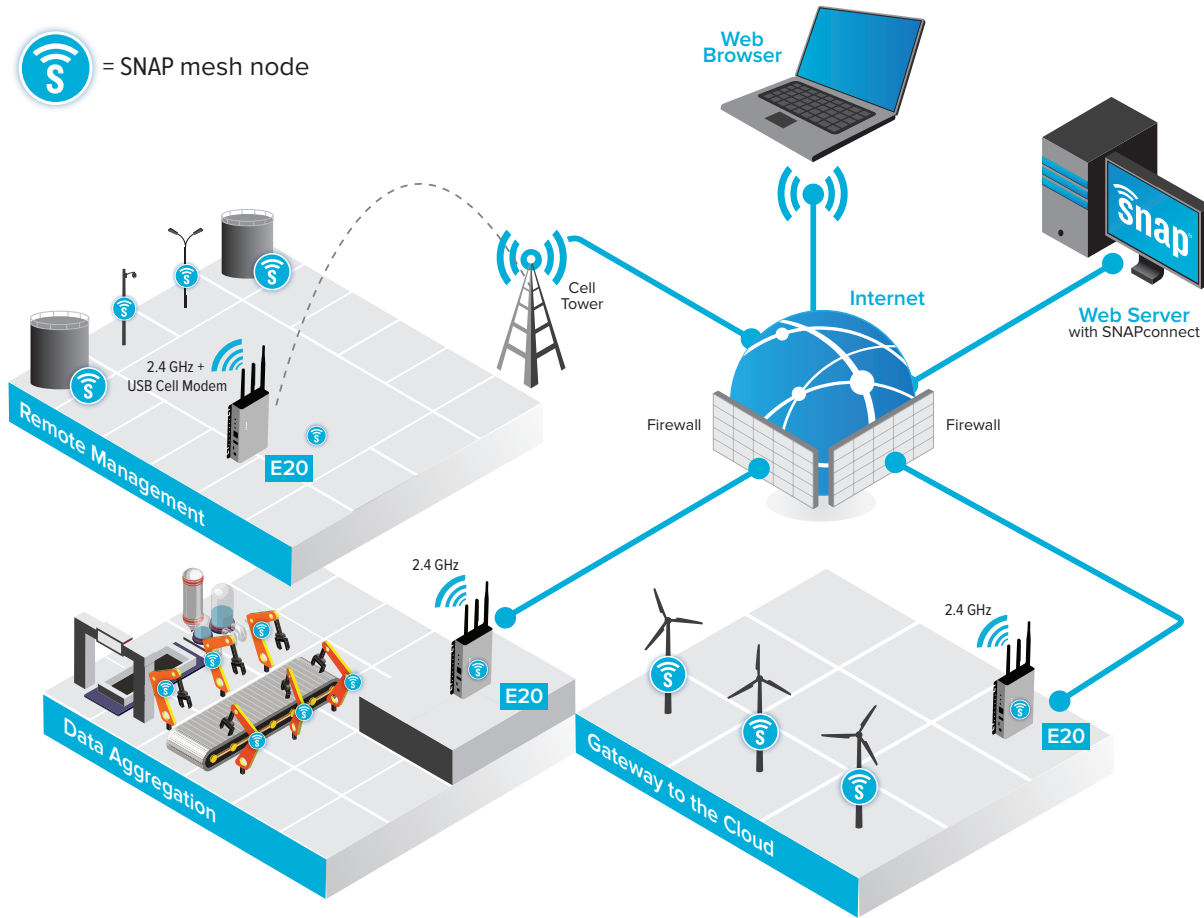
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The SNAPconnect E20 gateway connects SNAP networks to the internet using built-in Ethernet, WiFi, and various USB-enabled communications mediums.

In the example below, the E20 gateways serve three different roles with three different remote SNAP networks in real time.



Feature	Characteristic
Processor	Freescale i.MX 6 featuring ARM® Cortex-A9 architecture (800 MHz)
Operating System	Ubuntu Linux
FLASH Memory	4GB NAND FLASH memory
RAM	512MB DDR3
Ports	10/100 Ethernet USB 2.0 Type-A (host) USB Micro-B (serial)
Operating Temperature	Industrial -40° to +70°C*
Power	DC terminal block 12, 24VDC (Operating range 7-36VDC)

Standard model configurations feature Synapse SM220 and Molex-type/barrel power connectors:	
SC020-010	SNAPconnect E20 Internet gateway, Wi-Fi, SM220 2.4GHz, 11-26VDC, FCC/ISED
SC020-110	SNAPconnect E20 Internet gateway (SC020-010) with AC adapter (FCC/North America plugs)
SC020-030	SNAPconnect E20 Internet gateway, Wi-Fi, SM220 2.4GHz, 11-26VDC, CE
AC020-001	AC Power Adapter, 100-240VAC input, 12VDC output, 15W, North America blades
AC021-001	DIN rail mount kit for E20

\* UL certified for +65°C maximum operating temperature