

# SNAP Connect E20

## SNAP Enabled Networking Gateway



The **SNAP® Connect E20** is a powerful, versatile gateway to integrate your SNAP mesh network with the outside world. Built to integrate into multiple applications, the E20 can be easily installed on a desktop, wall mounted, or DIN-rail mounted. With SNAP mesh networking directly integrated, users can connect their SNAP network to the Internet or a cloud solution via 3G cellular, Wi-Fi or wired Ethernet. TCP/IP connections can even bridge remote SNAP devices into one common network. Each E20 gateway can network up to 100 SNAP nodes or more, providing an effective method for centralizing data storage, performing web-based analytics, and remote application monitoring.

Local connections to the gateway are available via Type-A or Micro-B USB ports for connecting flash drives or additional devices. Bluetooth Smart is available for short range wireless connectivity options.

Powered by a powerful Cortex-A9 processor, the E20 utilizes the Ubuntu Linux distribution for its O/S, providing a stable, open source software platform with a package management system to maintain up-to-date security and software upgrades.



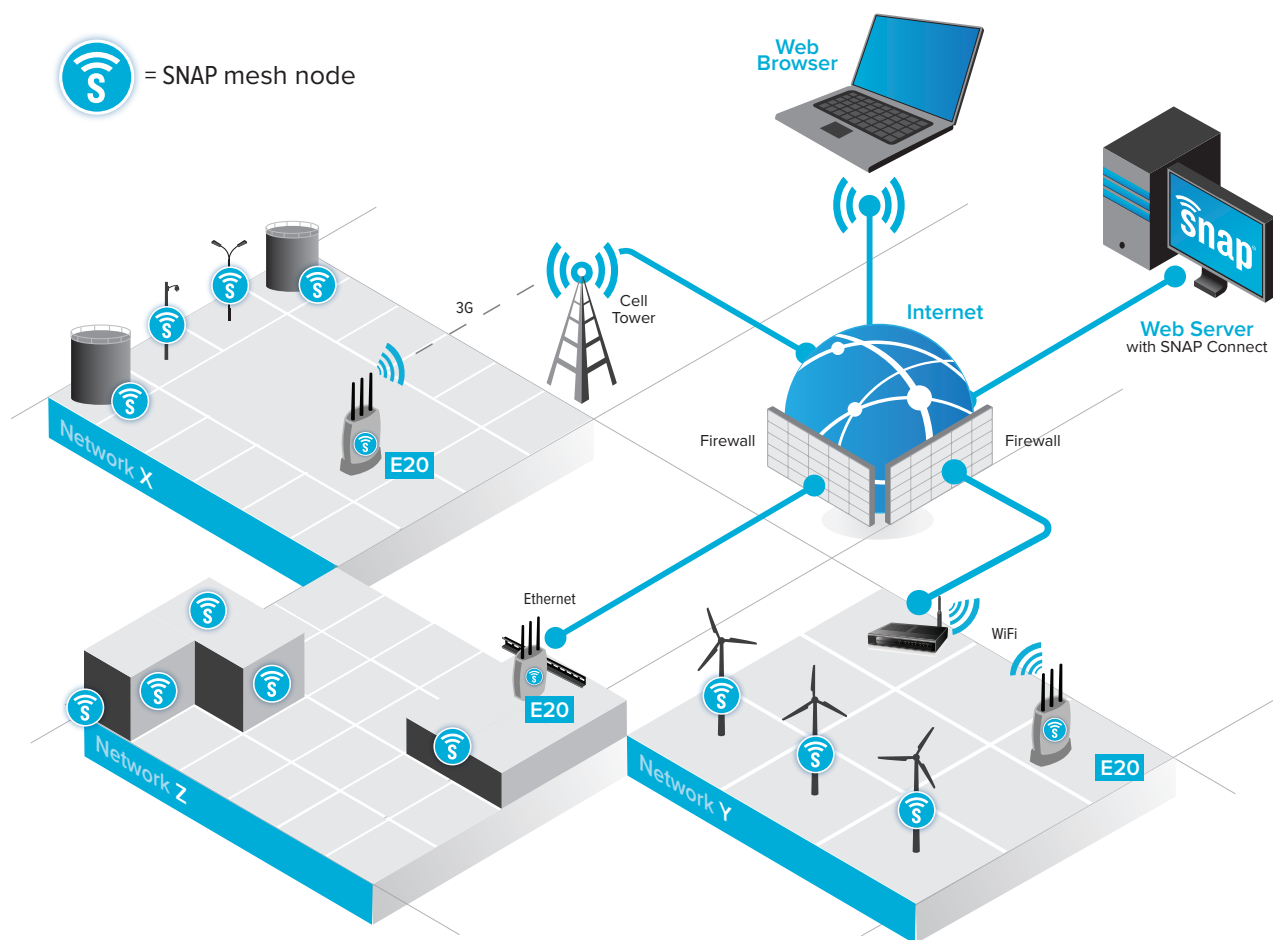
To learn more, visit [synapse-wireless.com](http://synapse-wireless.com)  
or call 877-982-7888

### Benefits at a glance:

- Off-site remote monitor and control of SNAP networked field applications
- Supports remote administration using Synapse Portal Desktop Software
- Embedded Linux 3.16 O/S (Ubuntu 14.4)
- Python-based Virtual Machine for scripting applications
- ARM® Cortex™-A9 architecture, running at 800 MHz
- 4GB NAND Flash/512MB DDR2 SRAM
- SNAP mesh enabled (2.4GHz, IEEE 802.15.4)
- Wi-Fi networking (2.4GHz, IEEE 802.11 a/b/g/n)
- 3G Cellular (UMTS/HSPA+ or 1xRTT/ EV-DO versions)
- Bluetooth Smart/BLE (2.4GHz, Version 4.0)
- 10/100 Ethernet port
- USB 2.0 Type-A (host), Micro-B (serial)
- -40°C to +85°C Industrial operating temperature

# SNAP® Connect E20 Networking Gateway

The SNAP Connect E20 Networking Gateway connects SNAP networks to the Internet using built-in Ethernet, 3G Cellular, or Wi-Fi. In the example below, the web browser can monitor and control three remote SNAP networks in real time.



## Smart Part Numbering System

E20 Platform includes: i.MX6 processor, DDR3 RAM, NAND Flash, 10/100 Ethernet, USB ports, External antenna connections

Platform	Case	Cellular	Wi-Fi	SNAP	Bluetooth	Power
E20	CO - No Case	3G0 - No cell	WF0 - No Wi-Fi	SN0 - No SNAP	BT0 - No Bluetooth	PWR0 - 5V Only
	C1 - With Case	3G1 - GSM/HSPA+	WF1 - w/Wi-Fi	SN1 - w/SNAP	BT1 - w/Bluetooth	PWR1 - 10-28VDC barrel
		3G2 - CDMA/EV-DO				PWR2 - 10-28VDC molex-type

Standard model configurations feature DIN-rail/desktop enclosures, SNAP, and Molex-type power connectors:

E20-C1-3G1-WF1-SN1-BT0-PWR2	add: GSM/HSPA+, Wi-Fi, SNAP
E20-C1-3G2-WF1-SN1-BT0-PWR2	add: CDMA/EV-DO, Wi-Fi, SNAP
E20-C1-3G0-WF1-SN1-BT0-PWR2	add: Wi-Fi, SNAP

*(Alternate configurations available with Minimum Order Quantities)*