

SENSONODE GOLD GATEWAY

(SN-G4-x-Cx)

Parker's Voice of the Machine™ IoT platform has become even stronger in the industrial environment with the introduction of the fourth generation SensoNODE™ Gold gateway.

SOFTWARE

Upon commercial release, the kernel utilized is Linux Yocto™ (5.15.124 Yocto Standard). The operating system deployed on every SensoNODE Gold gateway is Parker's Voice of the Machine Edge.

SENSOR TO GATEWAY

The sub gigahertz radio uses 63 channels located in the 902-927 MHz band. The first of the 63 channels is located at 902.4 MHz. The channels are spaced at 400 KHz within this range. The sensor to gateway frequency range utilized in the North American market is 908-916 MHz. Other geographic markets use different bands and channel lists. The wireless transmissions operate using a frequency hopping mode. Due to frequency hopping and low data transmission rates, the actual channel utilization is very low. The sub gigahertz radio transmits with a power level of 14 dBm. The modulation is 2-GFSK, 200 KHz channels.

GATEWAY TO CLOUD

The modem utilized in the gateway is a Telit MV31-W. The modem operates using the LTE-M (Primary) low-power wide-area cellular network. The 700 MHz frequency is used in conjunction with bands 2, 4, 5, 17. The gateway is also equipped with Ethernet capability. It contains three Intel® GbE: 2x i210; iAMT supported. It also contains a Wi-Fi 6E module with two antennas.



GATEWAY INTERFERENCE

The system has been subjected to 3rd party spectrum analysis to determine wireless interference with Land Mobile Radios (LMR) within industrial environments. It was determined that no meaningful effect on LMR traffic existed. Given the system operates in frequency hopping mode and due to frequency hopping and low data transmission rates, the actual channel utilization is very low.

REQUIRED ACCESSORIES

To enable communication between the SensoNODE Gold gateway and SensoNODE Gold sensors, the SensoNODE Gold Wireless Receiver (SN-WR4-x) must be purchased separately.

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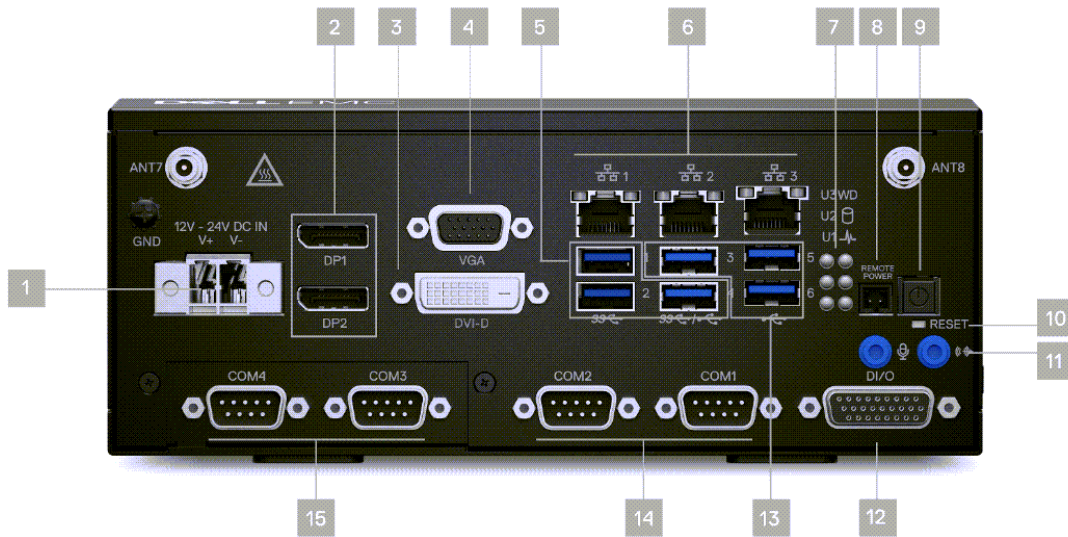
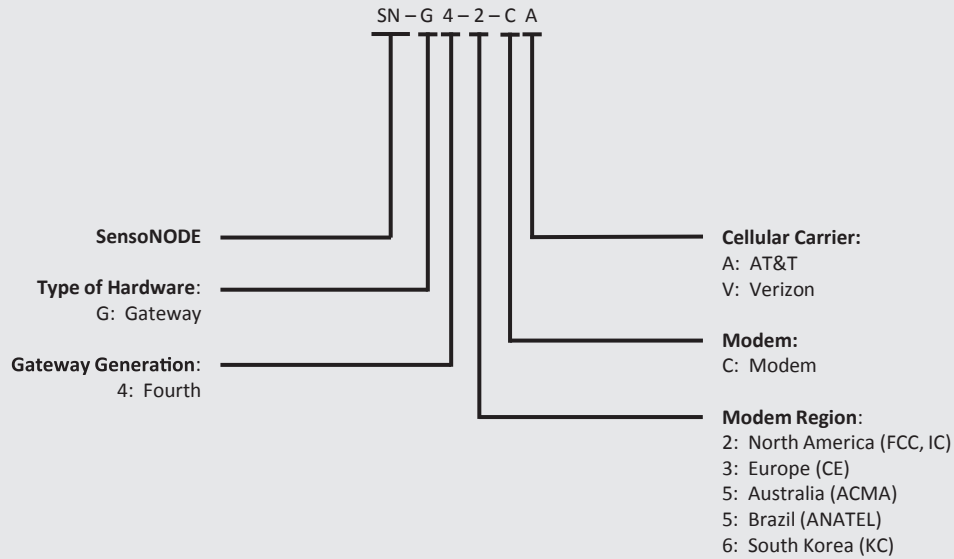


Feature	SN-G4-x-Cx
General	
Kernel	Linux Yocto
Processor	Intel® Core™ i5-9500
TDP	35 W
Number of Cores	6
Base Frequency	2.2 GHz
Maximum Turbo Frequency	3.6 GHz
PCH	C246
Memory	2x DDR4 SO-DIMMs, 16GB
IO Interfaces	
Display	2x DP++, DVI-D, VGA
Ethernet	3x Intel® GbE: 2x i210; iAMT supported
Wi-Fi	Wi-Fi 6e (2.4 2.495 GHz; 5.17-5.835 GHz; 5.925-7.125 GHz)
Bluetooth	BLE 5.3 (2.4 GHz)
Serial Ports	COM1/2: RS-232/422/485; COM3/4: RS-232
Digital I/O	8-Ch DI / 8-Ch DO
USB	3x USB 2.0; 2x USB 3.1 G2; 1x USB 3.1 G1
Audio	Line out; Mic in
Mini PCIe	USB 2.0+Pcle
M.2	1x socket 2, key B+M or B 1x 2280 / 3042 (USB 3.1 + SATA 6 Gb/s + 2x PCIe)
USIM	2x nanoSIM slot
Security	
TPM	TPM2.0
Storage	
Disk	256GB Internal 2.5" SATA, 1x slot
Technology	Power Loss Protection

Feature	SN-G4-x-Cx
Physical	
Cooling	Fanless
Dimensions	3.39" (H) x 8.27" (W) x 9.45" (D)
Weight	Net: 10.36 lbs ; Gross: 11.68 lbs
Mounting	Desktop; wall mount
Power Supply	
DC Input	12-24V (±10% tolerance)
AC Input	Optional: 180W; 60W (PoE); AC-DC adapter
Environmental	
Operating Temperature	32°F to 140°F (with 2.0 ft/s airflow) Derate Max Temp 1.8°F / 1,000 ft above sea level
Storage Temperature	-40°F to 185°F (excluding storage devices)
Altitude	Sea level to 3 miles
Humidity	95% at 104°F
Vibration	MIL-STD-810G METHOD 514.6 category 4
Shock	IEC-60068-2-27, half sine pulse 20G, MIL-STD-810G METHOD 516.6; sawtooth pulse
IP Rating	IP30
EMC	FCC, CE, ICES
Safety	IEC, EN, UL, CSA 63268-1
Regions	
United States, Canada, Mexico	2 (915 MHz)
European Union	3 (868 MHz)
Japan	4 (926 MHz)
Australia / New Zealand / Brazil / Chile	5 (922 MHz)
South Korea	6 (922 MHz)
Cellular	
AT&T	CA (all certifications completed)
Verizon	CV (all certifications completed)
Custom	Customer provided SIM and APN
SIM	Nano SIM (12.3mm x 8.8mm; 4FF)
Modem	Telit MV31-W



The Part Number



- | | |
|-------------------------|------------------------------|
| 1. DC Power Input | 8. Extend Power |
| 2. Display Port x 2 | 9. Power Button |
| 3. DVI-D | 10. Reset Button |
| 4. VGA | 11. Audio (Mic, Speaker) x 2 |
| 5. USB 3.1 Type-A x 3 | 12. Digital Input / Output |
| 6. Gigabit Ethernet x 3 | 13. USB 2.0 Type-A x 3 |
| 7. LED Indicators | 14. COM Port (232 / 485) x 2 |
| | 15. FM Input / Output x2 |



Dimensions

- 1. Depth: 9.45 inches 240 millimeters
- 2. Width: 8.27 inches 211 millimeters
- 3. Depth: 3.39 inches 86 millimeters

Weight

10.36 pounds 4.70 kilograms

Wall Mounted

