

VIG-120 (M12)

Industrial-grade Wireless IoT Gateway with Arm® Cortex®-A7 processor, 2 M12 LAN, 1 USB, 4 COM, 2 CAN Bus, Rugged, Compact, NB-IoT for LPWAN, -25°C to 70°C Operation



Features

- Industrial grade Arm® Cortex®-A7 696MHz processor
- 6V to 40V wide range DC power input
- -25°C to 70°C Operating Temperature
- Dual Ethernet with rugged M12 Connection
- 4 COM RS-232/422/485, 2 CAN Bus, 1 USB (OTG), 8 GPIO, 1 Console, 8 User Programming LED
- External SIM Socket supports WiFi/4G/LTE/GPRS/UMTS
- microSD Socket supports up to 128GB
- Optional NB-IoT module supports system-ready LPWAN applications



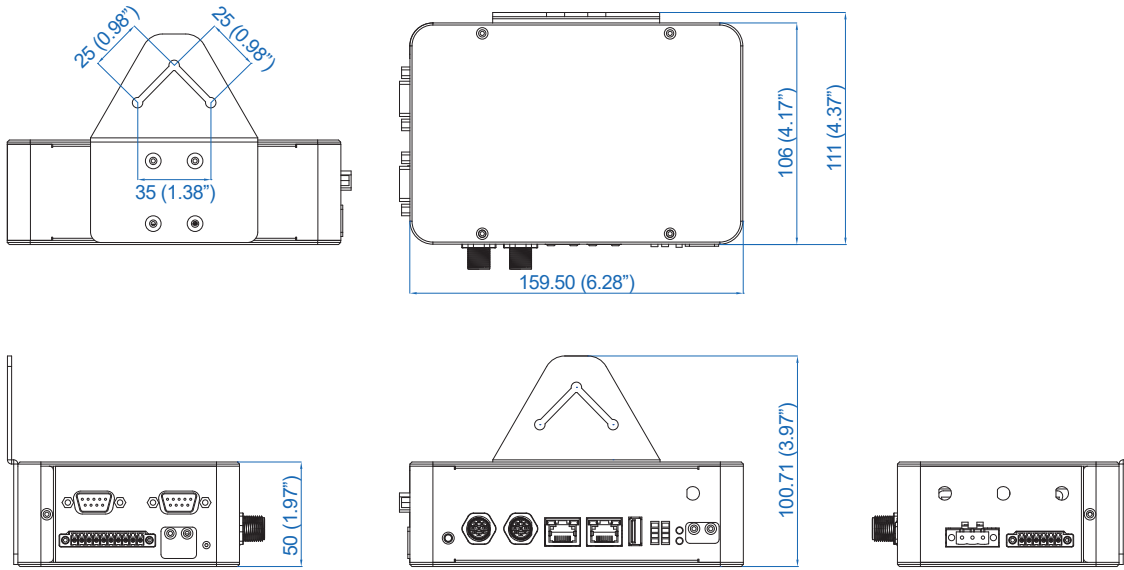
Specifications

System	
Processor	NXP i.MX6 UltraLite 696MHz Arm® Cortex®-A7 processor
Memory	1 DDR3L SDRAM, 512MB
Flash	1 NAND Flash, 512MB
EEPROM	1, up to 16KB
I/O Interface	
Ethernet	VIG-120 : 2 10/100Mbps Ethernet, RJ45 connector VIG-120M : 2 10/100Mbps Ethernet, M12 connector
Serial	Up to 4 software configurable COM RS-232/422/485 (ESD 8KV) : 2 COM with RJ45 connector, 2 COM with DB9 connector
CAN Bus	2 CAN Bus 2.0 A/B
USB	1 USB 2.0 supports OTG (External)
GPIO	8 GPIO
Console	1 independent debug console
Reset Button	2 for H/W Reset and User Programming
LED	10 for System Ready, Power Status and User Programming
Antenna	<ul style="list-style-type: none"> ▪ 1 Antenna for NB-IoT ▪ 3 Antenna for WiFi/4G/LTE/GPRS/UMTS
Expansion	
Mini PCIe	1 Full-size Mini PCIe Socket for USB/Internal SIM Card
SIM Cars	1 SIM Card Socket (External)
Storage	
microSD	1, supports SDHC, up to 128GB (External)
eMMC	Optional, up to 32GB

Power	
Power Input	6V to 40V, DC-in
Power Interface	3-pin Terminal Block : V+, V-, Frame Ground
Others	
Watchdog Timer	Reset : 0.5 to 128 sec./min. per step
Software Support	
OS	Debian Stretch R01-4.9.11
Mechanical	
Dimensions (W x L x H)	106mm x 160mm x 50mm (4.2" x 6.3" x 2.0")
Weight	0.6 kg (1.32 lb)
Mounting	<ul style="list-style-type: none"> ▪ DIN Rail Mount ▪ Wallmount by mounting bracket (optional)
Environment	
Operating Temperature	-25°C to 70°C (-13°F to 158°F)
Storage Temperature	-40°C to 85°C (-40°F to 185°F)
Humidity	5% to 95% Humidity, non-condensing
Relative Humidity	95% @ 70°C
Shock	<ul style="list-style-type: none"> ▪ IEC 60068-2-27 ▪ SSD : 50G @ wallmount, Half-sine, 11ms
Vibration	<ul style="list-style-type: none"> ▪ IEC 60068-2-64 ▪ SSD : 5Grms, 5Hz to 500Hz, 3 Axis
EMC	CE, FCC

Dimensions

Unit : mm/ inch



Front I/O



Top I/O



Bottom I/O



Order Information

VIG-120M	VIG-100, Arm® Cortex®-7, 2 M12 LAN, 1 USB, 4 COM, 2 CAN Bus, 8 GPIO
VIG-120	VIG-100, Arm® Cortex®-7, 2 LAN, 1 USB, 4 COM, 2 CAN Bus, 8 GPIO

Accessories

PWA-12W-US	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (US Type)
PWA-12W-EU	12W, 12V, 90V AC to 264V AC Power Adapter with 3-pin Terminal Block (EU Type)
Serial Cable	RJ45 to DB9 Female Serial Cable, 100cm
Wallmount	Wallmount Kit
NB-IoT Module	LPWAN NB-IoT Module with Antenna
4G Module	Mini PCIe 4G/GPS Module with Antenna
WiFi & Bluetooth for ARM	WiFi & Bluetooth Module (1T1R) with Antenna