

VIG-100 (M12)

Industrial-grade Wireless IoT Gateway with Arm® Cortex®-A7 processor, 2 M12 LAN, 1 USB, 2 COM, Rugged, Compact, Fanless, -25°C to 70°C Operation



Features

- Industrial grade Arm® Cortex®-A7 900MHz processor
- 6V to 40V wide range DC power input
- -25°C to 70°C Operating Temperature
- Dual Ethernet with rugged M12 Connection
- 2 COM RS-232/422/485, 1 USB (OTG), 1 Console, 8 User Programming LED
- External SIM Socket supports WiFi/4G/LTE/GPRS/UMTS
- microSD Socket supports up to 128GB



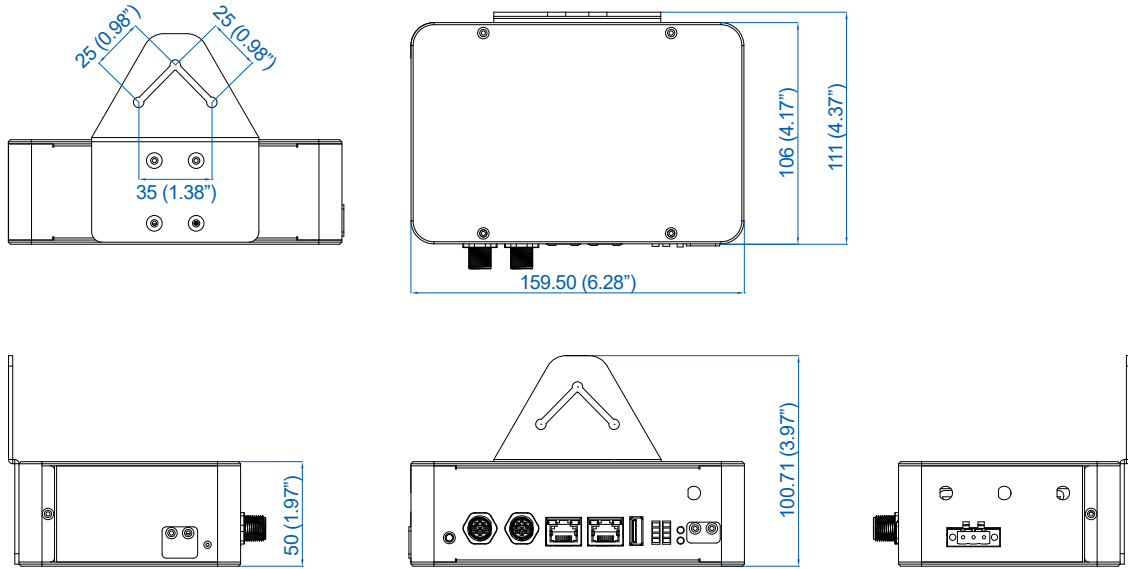
Specifications

| System | |
|-----------------|--|
| Processor | NXP i.MX6 UltraLite 900MHz Arm® Cortex®-A7 processor |
| Memory | 1 DDR3L SDRAM, 512MB |
| Flash | 1 NAND Flash, 512MB |
| EEPROM | 1, up to 16KB |
| I/O Interface | |
| Ethernet | VIG-100 : 2 10/100Mbps Ethernet, RJ45 connector VIG-100M : 2 10/100Mbps Ethernet, M12 connector |
| Serial | 2 software configurable COM RS-232/422/485 (ESD 8KV) : 2 COM with RJ45 connector |
| USB | 1 USB 2.0 supports OTG (External) |
| 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 | 4 Antenna for WiFi/4G/LTE/GPRS/UMTS |
| Expansion | |
| Mini PCIe | 1 Full-size Mini PCIe Socket for USB/Internal SIM Card |
| SIM Card | 1 SIM Card Socket (External) |
| Storage | |
| microSD | 1, supports SDHC, up to 128GB (External) |
| Power | |
| Power Input | 6V to 40V, DC-in |
| Power Interface | 3-pin Terminal Block : V+, V-, Frame Ground |

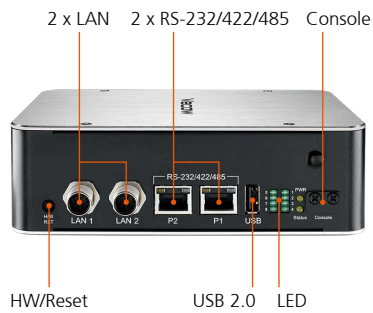
| Others | |
|------------------------|--|
| Watchdog Timer | Reset : 0.5 to 128 sec./min. per step |
| Software Support | |
| OS | Debian Stretch R01-4.9.11 |
| Mechanical | |
| Dimensions (W x L x H) | 106mm x 160mm x 50mm (4.2" x 6.3" x 2.0") |
| Weight | 0.6 kg (1.32 lb) |
| Mounting | <ul style="list-style-type: none"> ▪ DIN Rail Mount (optional) ▪ Wallmount by mounting bracket |
| 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-100M | VIG-100, Arm® Cortex®-7, 2 M12 LAN, 1 USB, 2 COM |
| VIG-100 | VIG-100, Arm® Cortex®-7, 2 LAN, 1 USB, 2 COM |

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 |
| DIN-RAIL | DIN Rail Kit |
| 4G Module | Mini PCIe 4G/GPS Module with Antenna |