

VCom116

Full-Featured Intelligent Gateway

Powerful Edge Computing for Centralized Total Control



MULTIPLE
CONFIGURATION
OPTIONS



NETWORK
DIVERSITY



TECHNOLOGY
EVOLUTION





VCom116



Enclosure

- Die cast aluminum
- IP65

Physical Parameters

- Weight: 1.03 lbs
- Dimensions: 4.7" x 1.92" x 5.03"

Interfaces

- 2 Ethernet
- 2 Serial
- 1 CAN

Wireless

- LTE
- Wi-Fi Client
- & Hot Spot

PRODUCT OVERVIEW

COMPUTING SPECIFICATIONS

- Freescale™ ARM® Cortex A53 Dual Core Processor
- 1 GByte DDR4 SDRAM Memory
- 8 GBytes eMMC Memory
- Open Source Linux OS: OpenWRT customized for DA and support for Python

COMMUNICATIONS FEATURES

- GPS and Gyroscope
- WiFi
- SNMP or COAP monitoring system

SECURITY FEATURES

- Tamper Switch Input for message alerts
- Crypto-authentication
- IEEE 802.1X-based authentication
- Open VPN
- Certificate-based identity [Radius and AAA support]
- Encryption : 3DES, AES 128/192/256, SHA 256/384/512 HMAC
- Network Layer Encryption (IPsec)
- Stateful Layer 3 Firewall with MAC Filtering, NAT, Source NAT, Static NAT, Port Forwarding
- FIPS 197 compliant encryption
- Embedded location & orientation sensors
- NIST certified hardware-based cryptographic calculation algorithms and secure key/secret

NETWORKING FEATURES

- MPLS Label Switch Router
- Bridging and routing
- Fully managed switch support 802.1q
- Quality of Service (802.1p)
- MODBUS/TCP/UDP/Serial
- DNP3 TCP/UDP/Serial
- DHCP IPv6 and IPv4
- 1 Serial: RS232
- 1 Serial: Software Selectable RS232/RS-422/RS-485
- IP Router /Firewall/VPN Capabilities BGP, MPLS, RIPv2, EIGRP, LDP, ISIS, OSPF, DMVPN, RPL, GRE

DEVICE MANAGEMENT

- Remote and Local Management and Monitoring
- Locally connected web-browser based GUI
- Over-the-Air update capability
- Battery Management / Monitoring / Predictive Maintenance

REGULATORY COMPLIANCE

- IEEE1613*, UL Safety, PTCRB, FCC Part 15b and IC

PROTOCOL SPECIFICATIONS

- DNP3 Serial and IP
- MODBUS Serial and IP
- IPV4 and IPV6
- IPV4 in IPV6 transitioning protocols MAP-T, MAP-E, SIIT, DS-Lite
- SNMP v1, 2c and v3
- CoAP

ENVIRONMENTAL SPECIFICATIONS

- Storage Temperature Range: -40° to 75°C
- Operating Range -40° to 70°C with type test up to 85°C (185°F) for 16 hours
- Humidity: 5% to 95% non-condensing

NETWORK CERTIFICATIONS

- AT&T, UScellular™*, Firstnet®*, Verizon, OnGo*



AT&T	Certification	✓
UScellular™	Certification	✓
Firstnet®	Certification	✓
Verizon	Certification	✓
OnGo	Certification	✓
UL	Certification	✓

FOR MORE INFORMATION

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