

Industrial ADSL- LTE/4G-Wi-Fi Case 6402

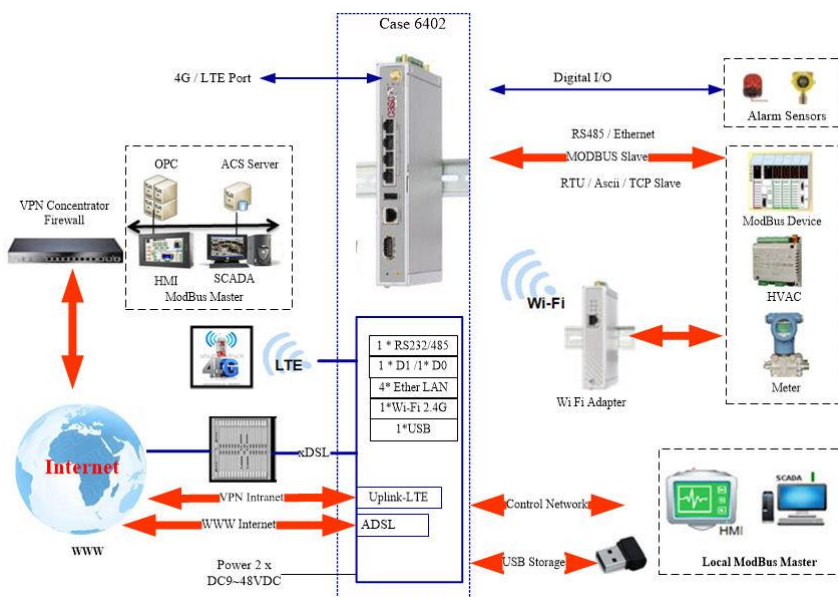


Case 6402

Industrial ADSL and Cellular MODBUS Router / Gateway

Features

- The 6402 is an Industrial ADSL / Cellular Router / Gateway with Modbus for Smart Industry, Smart Utility, Smart City, and Outdoor applications.
- Equipped with a dual-SIM LTE and an ADSL2+ modem, provide WAN failover / load balancing function for mission critical applications operating in harsh environments.
- Wi-Fi Compliance N300; Multiple (8) SSIDs for privilege group devices or users.
- 4* FE LAN port with tag based and port based VLANs easily to group control and relocate traffic pattern.
- 1* DB9 (RS232/RS485) for various serial communication protocol, and 1*DI, 1*DO for device triggering or event reporting.
- Fully protocol stack for both IPv4/IPv6, afford 128 users and 50,000 concurrent sessions.
- IPSec, PPTP, & L2TP VPN supports 16 concurrent tunnels with max 70Mbps throughput (IPSec).
- Firewall with SPI and IPS prevents hacker attacking and enhances network efficiency.
- SNMP, Telnet CLI, and TR-069 for administrator to manage system.
- QoS and Bandwidth management for optimal bandwidth usage.
- Seamless power failover between redundant 9-48V DC input.
- MTBF – 90,510 Hrs
- Warranty – 3 years



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Device Interfaces		Cellular Functions	
Uplink	1* embedded LTE (dual SIM), 1* RJ11 ADSL2+	Connectivity	SIM-SIM Failover / Failback, Reliability 24/7
3G/4G	LTE:800/900/1800/2600Mhz UMTS: 900/2100Mhz	APN Management	Auto-Detection, User Defined Priority, Manual
LAN	4 x RJ45 Fast Ethernet	Network Scan	Operator/Service Type/Band Select
Comms Bus	1 x DB9 (RS232/485)	Data Plan	Monitor, Usage Warning, Connection, Restricted
I/O	1 x Digital Input, 1 x Digital Output	SMS	Send, Receive, Forward, Event Notify, Device Management
Mgmt Port	1 x RJ 11 (RS232 Console)	USSD	Manual / USSD Profile
LAN Wi-Fi	11n2T2R	Management	
Storage & Log	1 x USB 2.0	Configuration	Web UI, Telnet CLI, Console CLI SNMPv3, TR-069
Antenna	2 x 3dBi Detachable ant (3G/4G) 2 x 5Dbi detachable ant. (Wi-Fi)	Event & Handler:	DI, DO, SMS, Syslog, SNMP Trap, Email Alert, Reboot
WAN Ports		Advanced Features	
WAN	Multiple WANs, Failover / Load balancing, Configurable 4G / ADSL	VPN Tunnelling	IPSec, PPTP, L2TP, GRE, Open VPN, DMVPN, L2TP over IPSec; Tunnelling with Full Tunnel, Tunnel Failover
Cellular	2G/3G/LTE IPv4 / IPv6, IP Pass through	VPN Capacity	Up to 16 Tunnels
ADSL	IPoA, EoA,PPPoA, PPPoE, RFC 1483 Bridged	Access Control	MAC Address Control, Packet Filters, URL Blocking
IPv6	Dual Stack 6-in-4, 4 to 6, Dynamic, Static PPPoE	QoS & BWM	Policy-based Bandwidth Control and Packet Flow Prioritisation
Basic Features		Firewall	SPI Firewall with stealth mode IPS
Ethernet	LAN IP, Subnet Mask	Applications	
Wi-Fi System	802.11n 2T2R MIMO 300Mbps (2.4GHz)	DI / DO:	Digital Input, Digital Output
Wi-Fi Operation Mode & Function	AP Router, WDS, WDS Hybrid Modes Multi SSID, WPS, WMM	Storage	I/O Status Records, Device /Event/Configuration Log File
VLAN	Port-based, tag-based	System	
Wi-Fi Security	WEP, WPA,WPA2, WPA-PSK, WPA2- PSK, 802.1x	System	Status & Statistics Tools, scheduling FW Upgrade, Backup and Restore Settings, Watchdog Timer
NAT	ALG, Special AP, DMZ Host, Virtual Server/ Computer, PPTP/L2TP/IPSec Pass Through	Environment	
Routing	Static, Dynamic, RIPv1/v2, OSPF, BGP	Operating	-20 °C ~ 60 °C
Virtual COM	RFC2217, TCP Client, TCP Server, UDP	Storage	-40 °C ~ 85 °C
MODBUS	Modbus TCP Master/Slave, Modbus RTU/ASCII Master/Slave See next page for details of registers	Humidity	10% ~ 95% (non-condensing)
		Storage	-40 °C ~ 85 °C
		Power	
		Supply	Dual DC 9v – 48v
		Power	15.5 watts
		Physical	
		Dimensions	187mm(W) x 110mm(D)x 30mm(H)
		Unit Weight	710 gms
		Ship weight	1500gms

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6402 Status to MODBUS Register Values

Register Address	Register Name	R / W	Register Range / Description
WAN Status / Statistics			
0	WAN-1 Connection Status	R	0 ~ 6, 0=Disconnected, 1=Connecting, 2=Connected, 3=Disconnecting, 5=Wait for Traffic..., 6=Disconnected
1	WAN-2 Connection Status	R	0 ~ 6, 0=Disconnected, 1=Connecting..., 2=Connected, 3=Disconnecting..., 5=Wait for Traffic..., 6=Disconnected
2	WAN-3 Connection Status	R	0 ~ 6, 0=Disconnected, 1=Connecting..., 2=Connected, 3=Disconnecting..., 5=Wait for Traffic..., 6=Disconnected
Cellular Service Statistics			
10	3G/4G_SERVICE_TYPE	R	0 ~ 7, 0=2G, 1=none, 2=3G, 3=3.5G, 4~6=3.75G, 7=LTE
11	3G/4G_LINK_STATUS	R	0 ~ 6, 0=Disconnected, 1=Connecting..., 2=Connected, 3=Disconnecting..., 5=Wait for Traffic..., 6=Disconnected
12	3G/4G_SIGNAL_STRENGTH	R	0 ~ 100
13	3G/4G_SIM_STATUS	R	0 : SIM card with PIN code insert 1 : SIM card ready 2 : No SIM card
14	3G/4G_MCC	R	MCC Value
15	3G/4G_MNC	R	MNC Value
16	3G/4G_CS Register Status	R	0 : Unregistered, 1: Registered
17	3G/4G_PS Register Status	R	0 : Unregistered, 1: Registered
18	3G/4G_Roaming Status	R	0 : Not Roaming, 1: Roaming
19	3G/4G_RSSI	R	RSSI Value
20	3G/4G_RSRP	R	RSRP Value
21	3G/4G_RSRQ	R	RSRQ Value
ADSL Service Statistics			
70	ADSL_Download_Data rate	R	ADSL Download Data rate value (kbps)
71	ADSL_Upload_Data rate	R	ADSL Upload Data rate value (kbps)
72	ADSL SNR_Download	R	ADSL SNR Download value (dB)
73	ADSL SNR_Upload	R	ADSL SNR Upload value (dB)
74	ADSL modem link status	R	0 : Disconnected, 1: Connected
IP Sec VPN Statistics 1 (101 to 16 (116) displayed but only two shown here.			
101	VPN IPSec tunnel 1 status	R	1 : Connected, 2 : Wait for traffic , 3 : Disconnected , 9 : Connecting
116	VPN IPSec tunnel 16 status	R	1 : Connected, 2 : Wait for traffic , 3 : Disconnected , 9 : Connecting
Digital input / Output statistics / Status			
150	DI_STATUS_1	R	0 : OFF, 1 : ON
151	DO_STATUS_1	R/W	0 : OFF, 1 : ON
Serial Port Statistics / Status			
201	Serial Port-0_Interface	R	1 : RS-232, 3 : RS-485
202	Serial Port-0_Baud Rate	R	Baud Rate Value
203	Serial Port-0_Data Bits	R	7 or 8
204	Serial Port-0_Stop Bits	R	1 or 2
205	Serial Port-0_Flow Control	R	0 : None, 2 : RTS,CTS, 3 : DTR,DSR
206	Serial Port-0_Parity	R	0 : None, 1 : Odd, 2 : Even