Comnet RL1000GW/48/ESFP/S24/CH+ RL1000GW with 1 x RS-232/1 x RS-485/1 x 10/100 Tx/1 x 100/1000 Fx SFP and 2G/3G/HSPA+ Cellular Modem 24/48 VDC

Connectors	
1 or 2 x RS-232 RJ-45 serial port, with control lines	
1 RS-485 RJ-45 serial port	
1 x 10/100TX RJ-45 Ethernet port	
1 x 100/1000 SFP¹ Ethernet port	
Cellular modem with 2 SIM cards for GPRS/UMTS or HSPA/EVDO/LTE networks.	
Discrete lines: 2 In, 2 Out	
Console RS-232 RJ-45 serial port	
Security	
Distributed DPI Firewall	Profile based firewall
	Security rules planning per service group
	Firewall monitoring Mode
	Firewall enforcement Mode
	Firewall Learning Mode
	IEC 104 DPI Firewall
	IEC 61850 DPI Firewall
	Modbus TCP DPI Firewall
	DNP3 TCP DPI Firewall
VPN	IPsec Certificates X.509
	IPsec CRL server
	IPsec CA server
	IPsec Dynamic Key Exchange
	IPSec encryption AES
	IPSec encryption 3DES
	L3 IPSec VPN
	L3 mGRE DM-VPN
Access control	Access Lists L3
	Access Lists L4
	VRF
	NAT
	User activity report
	local APA (Authentication Proxy Access)
	User activity report (under local APA)
	OS image encryption
Protection	
Conditioned / scheduled system reboot	
Protection between Cellular ISP (SIM cards backup)	
Networking	
SCADA gateway for IEC101/104, ModBus RTU/TCP and DNP3 RTU/TCP	
Terminal Server frame and byte modes	
Serial transparent tunneling byte mode	
QOS	
Routing	Static Routing
	OSPF v2
	IPv4

Switching	Auto Crossing
	Auto Negotiation IEEE 802.3ab
	VLAN Tagging
Time	Local Time settings
Diagnostic	Counters & statistics per Port
	LED diagnostics
	Ping
	RMON
	DOM

Management

Console serial port
Backup / Restore running config
Conditioned/ scheduled system reboot
Remote management and upgrade
TFTP/ SFTP Client
Safe Mode
Syslog

Mechanical

Indicator LEDs	PWR Port Activity/Speed RUN SIM x 2 E2
Enclosure	Rugged - IP 30 rated, No fans
Weight	1.4 kg
Size (H x W x D)	106 x 50 x 120 mm
Mounting	DIN rail enclosure

Environmental

MTBF	> 250,000 hours
Storage Temperature	-40º to +85ºC
Operating Temperature	-40º to + 85ºC²
Operating Humidity	0 to 95%

Power

Power input	12/24V Version: 9 - 36 VDC
	24/48V Version: 18 - 60 VDC
Consumption	12 W Max

Compliance

IEC 61850-3 - Electric Utility Substations
IEEE 1613, Class 2 - Electric Utility Substations
NEMA TS-1/TS-2 - Traffic Signal Control Equipment