

# Comnet RL1000GW/48/E/S24 RL1000GW with 1 x RS-232/1 x RS-485 and 1 x 10/100 Tx 24/48 VDC

<b>Connectors</b>	
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 SFP <sup>1</sup> 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	
<b>Security</b>	
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
<b>Protection</b>	
Conditioned / scheduled system reboot	
Protection between Cellular ISP (SIM cards backup)	
<b>Networking</b>	
SCADA gateway for IEC101/104, ModBus RTU/TCP and DNP3 RTU/TCP	
Terminal Server frame and byte modes	
Serial transparent tunneling byte mode	
<b>QOS</b>	
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
<b>Management</b>	
Console serial port	
Backup / Restore running config	
Conditioned/ scheduled system reboot	
Remote management and upgrade	
TFTP/ SFTP Client	
Safe Mode	
Syslog	
<b>Mechanical</b>	
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
<b>Environmental</b>	
MTBF	> 250,000 hours
Storage Temperature	-40° to +85°C
Operating Temperature	-40° to + 85°C <sup>2</sup>
Operating Humidity	0 to 95%
<b>Power</b>	
Power input	12/24V Version: 9 - 36 VDC
	24/48V Version: 18 - 60 VDC
Consumption	12 W Max
<b>Compliance</b>	
IEC 61850-3 - Electric Utility Substations	
IEEE 1613, Class 2 - Electric Utility Substations	
NEMA TS-1/TS-2 - Traffic Signal Control Equipment	