

INDUSTRIAL 3G CELLULAR ROUTER/MODEM

For high reliability Serial and Ethernet communications to remote equipment using cellular networks.

CYBERTEC Model 2100



- > Industrial design, -30 to +70°C temperature range, 10 to 60 VDC voltage range
- > Support for 2G, 2.5G, 3G and 3.5G networks
- > HSPA/UMTS 2100/1900/850MHz
- > HSDPA: 7.2Mbps downlink
- > HSUPA: 2Mbps uplink (upgradeable to 5.76Mbps)
- > UMTS: 384kbps downlink/uplink
- > EDGE: 236.8kpbs downlink/uplink
- > GSM/GPRS/EDGE 850/900/1800/1900 MHz
- > Serial IP Gateway / Modbus IP Serial Gateway / DNP3 IP Serial Gateway
- > High-performance Firewall, SSL and IPSec VPN services
- > SMS Functionality for remote monitoring and diagnosis
- > Built-in 2-port 10/100 fast Ethernet switch
- > Configure System hibernation with time profile

Introduction

Cybertec Model 2100 HSPA Cellular router is designed specifically for applications requiring a high level of reliability and performance. Unique features such as Smart multilevel watchdog technology ensures units do not lock up. Support for latest 3G Fast Uplink enhancements open up new application opportunities with total data security over public or private networks.

Applications



TELEMETRY

Dial-Up or IP connection to Weather Stations and Data Loggers.



CCTV

Live video from remote CCTV Cameras using high uplink bandwidth.



INDUSTRIAL AUTOMATION

Fast connection to remote PLC and RTU Installations using Serial or Ethernet.



INTELLIGENT TRANSPORT

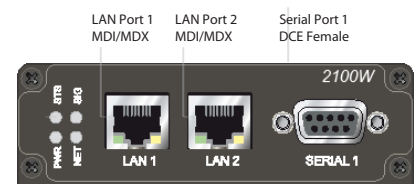
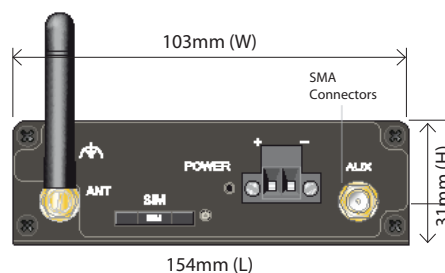
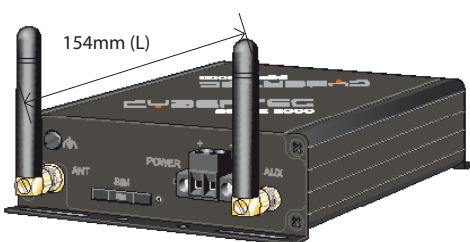
Connection to Variable Message Displays, Tolls, Mobile Transport.



DIGITAL SIGNAGE

Reliable and fast Upload/Download of Digital Content.

Dimensions (unit = mm)



Specifications

Wireless Network

HSUPA / HSDPA / UMTS	
2100W-Series	850 / 1900 / 2100 MHz
2100E-Series	900 / 2100 MHz
Power	+24 dBm
Downlink Speeds	1.8 Mbps (Categories 1-4, 11 and 12)
	3.6 Mbps (Categories 5 and 6)
	7.2 Mbps (Category 7 and 8)
Up-link Speeds	2 Mbps / 5.76Mbps (network dependent)
Circuit-Switched Data	64, 14.4 and 9.6 Kbps

GSM / GPRS / EDGE	
850 / 900 / 1800 / 1900 MHz	
GSM Power	2W @ 850 / 900 MHz
	1W @ 1800 / 1900 MHz
EDGE Power	+27 dBm @ 850 / 900 MHz
	+26 dBm @ 1800 / 1900 MHz
GPRS/EDGE Multislot	Class 12
Circuit-Switched Data	14.4 and 9.6 Kbps

Power

Standard	
Rated Voltage	10 to 60 VDC
Rated Current	800 mA (Max)
Operating Voltage	10 to 60 VDC
Operation Current #	380 mA @ 12VDC
Idle Current	180mA @ 12VDC
Connection Detachable Screw Terminal	
Polarity Dependant, Reverse Polarity Protection	
Standby Timer	
Standby Current 10 mA @ 12V	
System will hibernate according to Time Profile	
Configured with WEB interface	

LED Indicators

System Information	
Power (PWR) Status (STS)	Signal Strength (SIG) Network status (NET)
Ethernet link / activity	

Ethernet

Connection
2 x Fast Ethernet Switch Ports
Auto-Sensing / Auto-Negotiation
Auto MDI/MDI-X Connection

Serial Port

Connection
9-Pin D-Sub Female
Protocols
DNP3 IP Serial Gateway
Modbus IP Serial Gateway
Serial UDP/ TCP Gateway
Reverse Telnet RFC2217 Server
Modem Emulator
Send, Receive and Manage SMS Message

Networking

Features
IP/TCP/UDP/ICMP/ARP/RARP Application Support
Dynamic Host Configuration Protocol (DHCP) Server
Network and Port Address Translation (NAT/NAPT)
Dynamic DNS Client
Port Mapping/Forwarding
DNS Proxy
Bridging
DHCP Server/Client
Routing
Quality Of Service
Policy-Based Routing
Static / Dynamic Routing
Routing Information Protocol (Ripv1 / Ripv2)
Virtual Router Redundancy Protocol (VRRP)
Security
NAT / Packet Filtering
Stateful Packet Inspection
Protection against Denial of Service attacks
IP Security (IPSec)
Layer 2 Tunnelling Protocol (L2TP)
OpenVPN SSL VPN
3DES and AES (128/256) Encryption Support
Point-To-Point Tunnelling Protocol (PPTP)

Approvals

A-Tick Approval
C-Tick Approval
CE Type Approval
RoHS Compliant

Antenna

Physical Interface
External Antenna SMA Female Connector (ANT)
Receive Diversity SMA Female Connector (AUX)

Management

General	
Simple Network Management Protocol (SNMP)	
Web Based HTTP/HTTPS management	
Web Based Firmware Upgrade	
Diagnostic Test	
SMS Control	
DNP3	
Telnet	
Web - Security	
Local User Access Control	
RADIUS User Access Control	
Alerting & Notification	
Protocols	SNMP DNP3 SMS Email
Events	Temperature Network Connection Signal Strength

Environmental

Operating	
Temperature	-20 to +60°C -30 to +70°C (restricted operation)
Humidity	0 to 90% Relative Humidity Non Nondensing
Storage & Transport	
Temperature	-40 to +85°C
Humidity	0 to 90% Relative Humidity Non Condensing

Ordering Information

Part Number	Description
C MODEL 2100W	Cybertec 2100 Modem for UMTS 850/1900/2100Mhz Networks
C MODEL 2100E	Cybertec 2100 Modem for UMTS 900/2100Mhz Networks

Manufactured and designed in Australia

Note: *Access speed will vary depending on the network coverage and speed that the network operator offers.

#Typical current rating. Operating current can peak higher depending on the network coverage.