CYBERTEC

Designed for remote telemetry SCADA applications, the Series 1000 is the perfect choice for controlling remotely located devices using Ethernet, serial or digital I/O

SERIES 1000 FEATURES & BENEFITS

3G/HSDPA & GSM/GPRS

A flexible industrial platform for CDMA replacement applications supporting Telstra NextG™ 850/2100Mhz, Vodafone/Optus 2100Mhz networks

Packet & Circuit Switched Modes

Connect to serial devices using IP or Dial-Up connection

HSDPA Download 3.6Mbps, Upload 384Kbps

High bandwidth allows multiple Serial & Ethernet devices to share the same connection simultaneously

Built In Managed Ethernet Switch

2 x 10/100Base-T Switched Ethernet Ports with MDI/MDX, VLAN & QoS support

DNP3 Level 1 Outstation

Control I/O, Serial Data and Diagnostics from DNP Master Station. Can replace RTU in some applications

Serial to IP Conversion

Convert DNP3 Serial & Modbus ASCII/RTU to IP Protocols

Industrial Features

Wide Temperature, DIN Rail Mount, Captive DC Terminal Block, Rugged Enclosure

Wide DC Input voltage range: 10-60VDC

Suitable for a wide range of environments - from low power Solar to SubStation applications

1 x RS232 DB9 DCE Port

Allows Drop-In replacement for Dial-Up modem emulation in either IP or circuit switched data modes.

2 x RS232 Ports (1220 Model)

Extra serial ports allow for connection to multiple serial devices such as Reclosers, RTU's, & IED's
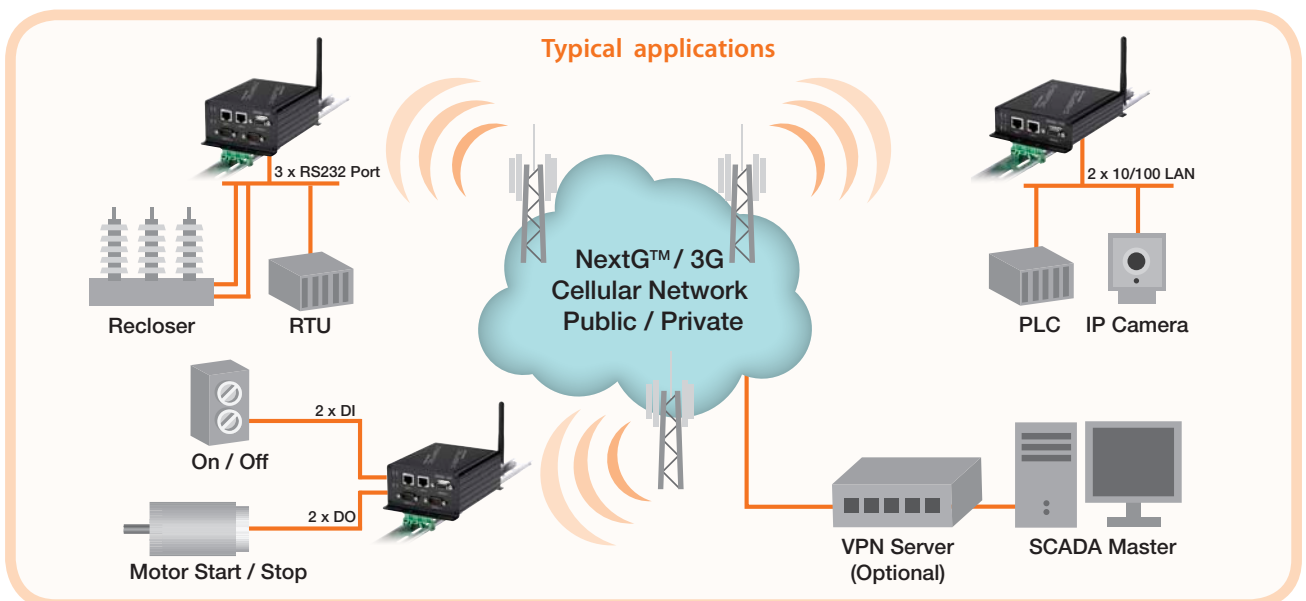
DI & DO Functionality (1220 Model)

2 x Digital Inputs & 2 Digital Outputs can be controlled via DNP or Modbus Master, Web Interface or SMS

VPN Support
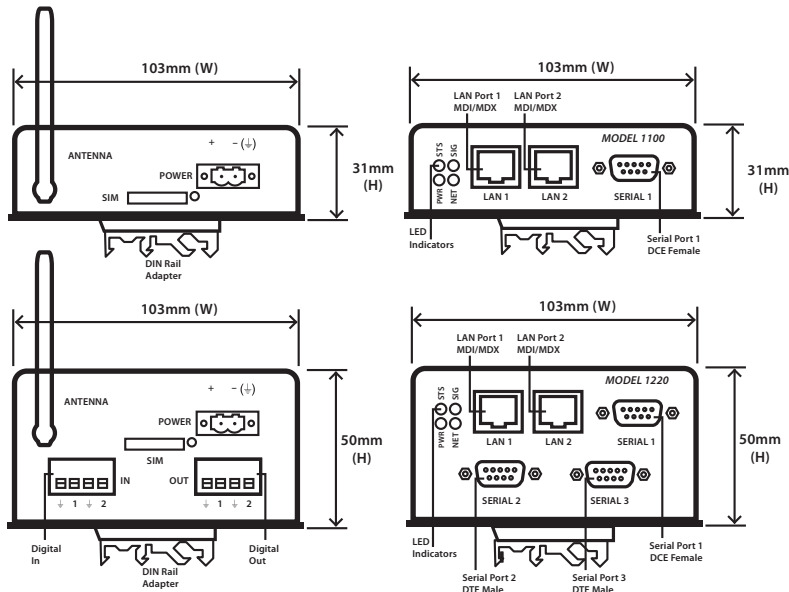
Establish a secure connection over public cellular network using IPSec or OpenVPN.

SMS Functionality

Remote diagnostics, modem status, I/O control via SMS

Typical applications

3 x RS232 Port

2 x 10/100 LAN

Recloser   RTU

NextG™ / 3G
Cellular Network
Public / Private

PLC   IP Camera

2 x DI

On / Off

2 x DO

Motor Start / Stop

VPN Server
(Optional)

SCADA Master

CYBERTEC

103mm (W)

ANTENNA

POWER + – (⏚)

SIM

31mm (H)

DIN Rail Adapter

103mm (W)

LAN Port 1 MDI/MDX LAN Port 2 MDI/MDX

MODEL 1100

PWR STS NET SIG

LAN 1 LAN 2 SERIAL 1

LED Indicators

Serial Port 1 DCE Female

31mm (H)

1100 Model

- 2 x 10/100BaseT MDI/MDX Ethernet
- 1 x RS232 DB9 Female DCE connector
- (H) 31mm (W) 103mm (L) 120mm

103mm (W)

ANTENNA

POWER + – (⏚)

SIM

IN OUT

⏚ 1 ⏚ 2   ⏚ 1 ⏚ 2

Digital In   DIN Rail Adapter   Digital Out

50mm (H)

103mm (W)

LAN Port 1 MDI/MDX LAN Port 2 MDI/MDX

MODEL 1220

PWR STS NET SIG

LAN 1 LAN 2 SERIAL 1

SERIAL 2 SERIAL 3

LED Indicators

Serial Port 2 DTE Male   Serial Port 3 DTE Male

Serial Port 1 DCE Female

50mm (H)

1220 Model

- 2 x 10/100BaseT MDI/MDX Ethernet
- 1 x RS232 DB9 Female DCE connector
- 2 x RS232 DB9 Male DTE connector
- 1 x Digital In - Voltage from Constant
- 1 x Digital Out - Open collector 20v / 300mA
- (H) 50mm (W) 103mm (L) 120mm

Wireless Network

- Tri-Band UMTS/HSDPA: 850/1900/2100MHz
- Quad-Band GSM / GPRS: 850/900/1800/1900MHz
- Telstra Next G™ Compatible

Antenna

- SMA Connector 1dBn
- Optional high gain version

Serial Interface

- Serial over TCP/IP
- Circuit switched data with dial-up modem emulation

Routing Protocols

- Static / Dynamic TCP/IP routing
- Policy-based routing
- Routing Information Protocol (RIPv1 / RIPv2)
- Network and Port Address translation (NAT/NAPT)
- Quality of Service (QoS)

LAN Functions

- DNS Proxy
- Dynamic DNS
- DHCP server on LAN ports

Management & Config

- Web interface
- SNMP
- Remote config backup and restore
- Remote firmware upgrade

Security

- Multi-level passwords
- Secure Web

Indicators

- Power
- Signal strength
- Network status
- Ethernet link / activity

Power Supply

- Operating voltage: 10VDC - 60 VDC
- Max operating current: 800mA
- Maximum operating power: 8W
- Typical operating power: < 6W
- Low-power solar version available

Environmental

- Operating temperature: 0º to 70º C
- Operating humidity: 10% to 90% (relative humidity, non-condensing)

Approvals

- ⚠ A-Tick approval
- Ⓒ C-Tick approval
- CE CE Type approval
- Telstra NextG™ / Optus / Vodafone 3G

Part Numbers

- 1110 Model   (PART NO: CY-1100)
- 1220 Model   (PART NO: CY-1220)

1100 Model

1220 Model

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