



Cybertec 5455

xDSL DIN Rail Mount Router

Summary of benefits

- Supports VDSL2, ADSL, ADSL2 and ADSL2+
- NBN Compliant
- PPP Dial in/Dial out
- DNP3 Outstation
- Wide operating temperature range -25 to +70°C
- Serial interface: 1 x RS232 DCE, DB9 female
- Ethernet interfaces: 2 x 10/100 Mbit/s, RJ45
- xDSL interface: 1 x RJ11
- 5 Year warranty



This item is used in the following applications

Utilities

- SCADA and telemetry communications

Mining & Resources

- Machine temperature and vibration reporting
- Failover for monitoring systems

Agriculture

- Irrigation control
- Generator monitoring

Business Services

- Building automation and control
- CCTV security surveillance

The Cybertec 5455 VDSL2/ADSL2+ industrial broadband router provides a rugged industrial solution for remote device connectivity via a DSL connection. The 5455 supports VDSL2, ADSL, ADSL2 and ADSL2+ to provide connectivity irrespective of the type of DSL connection available at a particular site.

An integrated DIN rail mount gives the 5455 a compact form factor which ensures easy front access to both the DSL port, Ethernet switch and serial port.

Technical Specifications

xDSL Standards

Version	Common name	Standard	Downlink	Uplink
VDSL2	VDSL2	ITU G.993.2*	100 Mbit/s**	100 Mbit/s***
VDSL2	VDSL2 Vectoring	ITU G.993.5 G.Vector	100 Mbit/s**	100 Mbit/s***
ADSL2+	ADSL2+	ITU G.992.5	24 Mbit/s	1.4 Mbit/s
ADSL2+	ADSL2+ Annex M	ITU G.992.5 Annex M	24 Mbit/s	3.3 Mbit/s
ADSL2	ADSL2	ITU G.992.3	12 Mbit/s	1.3 Mbit/s
ADSL2	ADSL2 Annex J	ITU G.992.3 Annex J	12 Mbit/s	3.5 Mbit/s
ADSL2	RE-ADSL	ITU G.992.3 Annex L1/L2	5 Mbit/s	0.8 Mbit/s
ADSL	ADSL	ANSI T1.413	8 Mbit/s	1.0 Mbit/s
ADSL	ADSL (G.dmt)	ITU G.992.1	8 Mbit/s	1.0 Mbit/s
ADSL	ADSL (G.lite)	ITU G.992.2	1.5 Mbit/s	0.5 Mbit/s
ADSL	ADSL over POTS	ITU G.992.1 Annex A	12 Mbit/s	1.3 Mbit/s
ADSL	ADSL over ISDN	ITU G.992.1 Annex B	12 Mbit/s	1.8 Mbit/s

Notes:

* Supports profiles 8a, 8b, 8c, 8d, 12a, 12b, 17a, 30a

** Maximum sustained routing performance over time is around 35 Mbit/s

*** Uplink speed on profile 17a is 50 Mbit/s

Functionality
xDSL
RFC2684 Bridged LLC and Bridged VC-MUX ATM encap. (ADSL)
TR-067 Compliance*
Dying Gasp support
ITU K.21 Support
Rate adaptive modem at 32 Kbps steps
ATM Layer with traffic shaping QoS support (UBR, CBR, VBR-rt,VBR-nrt)
AAL5 – AAL
F5 OAM Loopback/Send and receive
RFC2364 PPPoA client support
RFC2516 PPPoE client support
RFC2225 / RFC1577 Classical IP Support
PAP/CHAP/MS-CHAP for Password Authentication support
Ethernet
IEEE 802.3 for 10BaseT
IEEE 802.3u for 100BaseTX
Layer-2 QoS
IEEE 802.1p Class of Service
Serial
RS-232
Serial Over IP (Serial Extender and Virtual Serial Port)
Modem emulation
AT command interpreter
MODBUS
DNP3
Networking
Dynamic Host Configuration Protocol (DHCP) Server
Network Address and Port Translation (NAT/ NATP)
Port Forwarding
DNS Proxy
Bridging
PPP Dial in/Dial out
Routing
Static Routing
Policy-Based Routing
Quality of Service
Routing Information Protocol (Ripv1/Ripv2)
Virtual Router Redundancy Protocol (VRRP)
Generic Routing Encapsulation (GRE)

Security

Stateful Packet Inspection / ACL
NAT/Packet Filtering
Protection against Denial of Service attacks
IP Security (IPSec)
Layer 2 Tunnelling Protocol (L2TP)
OpenVPN SSL VPN
Point-to-Point Tunnelling Protocol (PPTP)
Simple Certificate Enrollment Protocol (SCEP)
RADIUS
Management
Management tools
Web interface (HTTP and HTTPS)
Command Line Interface (CLI) via SSHv2 and TELNET
Simple Network Management Protocol (SNMP) v1/v2c/v3
Flexible alarm/event handling system
Syslog (log files and remote syslog server)

Power

Rated voltage: 12 to 48 VDC
Operating voltage: 10 to 60 VDC
Operating current: 450 mA at 12 VDC
Rated current: 1000 mA at 12 VDC

LED Indicators

Status (STS)
xDSL Line Status

Environmental

Temperature

Operating: -25°C to +70°C
Storage & Transport: -40°C to +85°C

Humidity: 0% to 90% Non condensing

Standards Compliance

EMC

EN 55032
EN 55024

Safety

EN 60950-1

Physical Characteristics

Dimensions
94mm (l) x 53mm (w) x 103mm (h)

Warranty

5 Years

Ordering Information

Part Number	Description
C Model 5455	Cybertec 5455 Industrial xDSL DIN Rail Mount Router
Optional	
C PLUGPACK 12V	Plug Pack Adapter

What's in the box

- C Model 5455
- Quick start guide
- 1 x Power terminal block

NB: Box content may differ on bulk product orders

** Available in future firmware release.*