SERIAL TO ETHERNET
CONVERTER

DCC201 is an interface between RS232, RS485 or RS422 bus and an Ethernet port. It converts between MODBUS TCP and MODBUS RTU. The browser based configuration utility allows the host IP address and serial settings to be changed by the user.
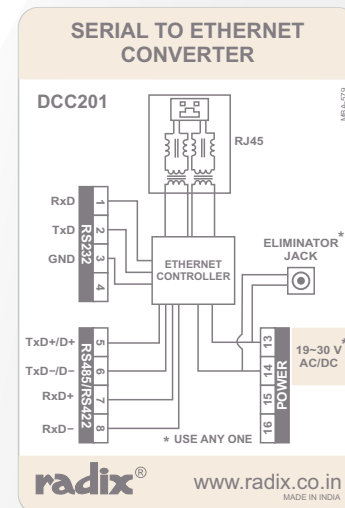
DCC201 is useful in demanding applications where 3-port isolation is required between the Ethernet, RS485 and Power Supply.

FEATURES ▶▶

- Auto-negotiating 10/100 Ethernet Half/Full Duplex
- Serial Interface: RS232, RS485, RS422
- Mutual isolation between RS485 port, Ethernet port and Power Supply
- Browser based configuration utility
- Bridge RS232/RS485/RS422 to TCP/IP
- MODBUS® RTU to MODBUS TCP/IP Bridging
- Serial speeds up to 230.4 Kb/s
- Telnet, TCP Modbus protocols
- Configurable baud rate, parity, data bits, stop bits, IP address
- 24 V AC/DC (19~30 V AC/DC) power supply
- Default Parameters: Can be restored by pressing reset switch at power ON
- Put any serial device on your LAN/Internet network in minutes
- Compact, DIN rail enclosure fits almost anywhere
- Private labelling for OEMs

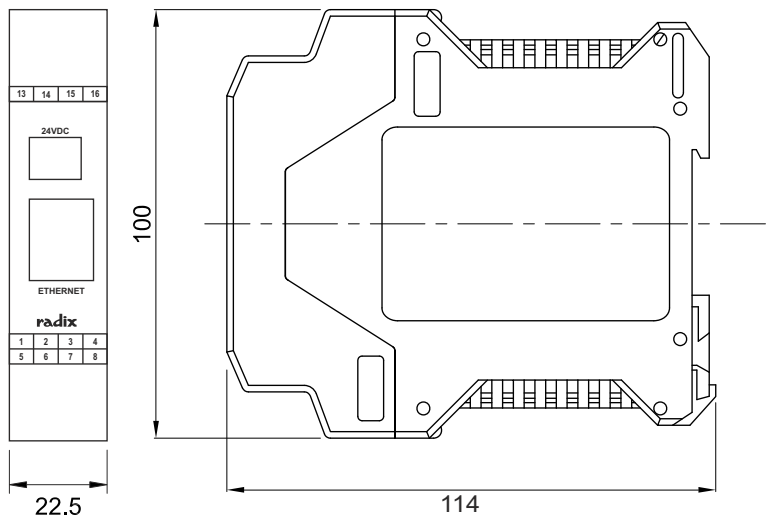## ◀◀ CONNECTION DIAGRAM

SERIAL TO ETHERNET CONVERTER

DCC201

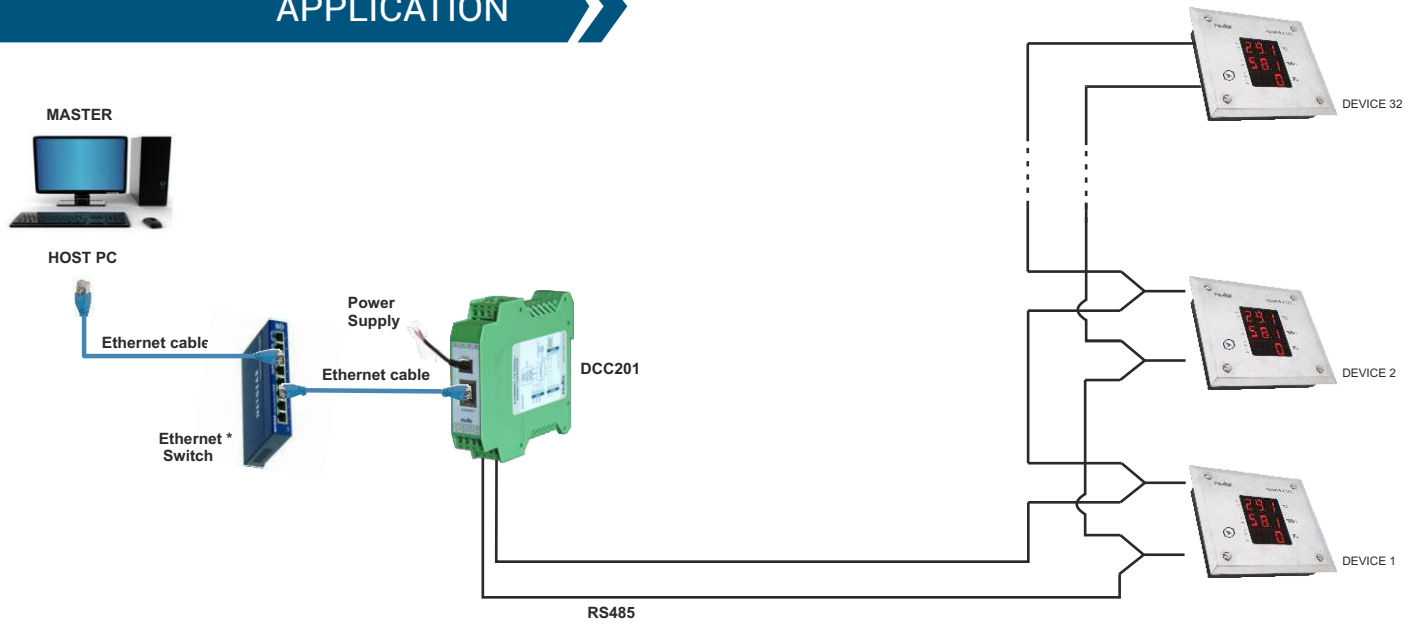RJ45

RxD — 1
TxD — 2
GND — 3
       4
RS232

ETHERNET CONTROLLER

ELIMINATOR* JACK

TxD+/D+ — 5
TxD−/D− — 6
RxD+ — 7
RxD− — 8
RS485/RS422

13
14
15
16
POWER

19~30 V* AC/DC

* USE ANY ONE

radix®   www.radix.co.in
MADE IN INDIA

DCC201

SERIAL TO ETHERNET
CONVERTER

DIMENSIONS mm (inch)

| 13 | 14 | 15 | 16 |

24VDC

ETHERNET

radix

| 1 | 2 | 3 | 4 |
| 5 | 6 | 7 | 8 |

100

22.5

114

FIG 1

APPLICATION

MASTER

HOST PC

Ethernet cable

Power
Supply

Ethernet cable

DCC201

Ethernet *
Switch

RS485

DEVICE 32

DEVICE 2

DEVICE 1

SERIAL TO ETHERNET
CONVERTER

SPECIFICATIONS

All specifications at ambient of 25 °C, unless specified otherwise

SYSTEM

CPU	32 bit MCU

COMMUNICATION INTERFACE

Connector	RJ45
Ethernet	10/100 Base-TX, 8-pin RJ-45 x 1 (Auto-negotiating, LED indicator)
Indicators (LEDs)	Network Link/Activity
Utility software	Browser based configuration utility
Ethernet protocol	Telnet, TCP MODBUS
Serial protocol	MODBUS RTU
COM1	3-wire RS232
	2-wire RS485
	4-wire RS422
Self-Tuner	Yes (automatic, RS485 direction control)
UART	16c550 or compatible

COM PORT FORMAT

Baud rate (bps)	300, 600, 1200, 2400, 4800, 9600, 14400, 19200, 38400, 57600, 115200, 230400
Data bit	5, 6, 7, 8
Parity	None, Odd, Even, Mark, Space
Stop bit	1, 2

POWER

Power input	24 V AC/DC (19 to 30 V AC/DC)
Power consumption	0.05A @24VDC

ISOLATION

Mutual isolation between RS485 port, Ethernet port and Power supply	1000 VAC RMS

ENCLOSURE

Dimensions (in mm) (See Fig1)	100(H) x 22.5(W) x 114(D)
Material	Nylon6
Installation	Din rail mounting
Mounting	Snap on for 35 mm DIN rail to DIN 46277

ENVIRONMENTAL CONDITIONS

Operating temperature	0 ~ 65 °C
Storage temperature	-30°C to +80°C
Operating humidity	10 ~ 95% RH, non-condensing

CONNECTIONS

Single/stranded wires	≤ 2.5 mm^2, AWG 14
4-wire RS422	TxD+, TxD-, RxD+, RxD-, GND
3-wire RS232	TxD, RxD ,GND
2-wire RS485	D+, D-

AC POWER ADAPTOR FOR DCC201

	To be ordered separately
Model	ACA203
Mains supply voltage	100~240VAC, 50/60hz

ORDERING INFORMATION

SERIAL TO ETHERNET CONVERTER
Model   : DCC201
Order Code   : 2489

In the Box

DCC201	1 pc
Power Cable, 1.5 meter for 24VDC	1 pc

AC POWER ADAPTOR FOR DCC201
Model   : ACA203
Order Code   : 2571