



## RETINA C5400

2x Shdsl, 2x E1 – PCI Card

Retina C5400 is a PCI adapter card for Linux with two shdsl and two E1 interfaces. The shdsl interfaces offer full duplex data transfer over one copper pair (2 wires) speed selectable between 128 kbps to 4.608 Mbps. The G.703/G.704 E1 interfaces max speed is 2.048 Mbps. The adapter card can be installed under Linux kernel with provided general purpose driver and utilities.

### Main features

- PCI card for for high speed shdsl and E1 data transmission with Linux system
- Two shdsl ports with max 4.608 Mbps speed, two E1 ports with max 2 Mbps
- Linux kernel driver and CLI
- Selectable Remote / Central operation mode
- Adjustable DMA transfer unit size for optimizing performance
- Flexible clocking alternatives
- SW/FW upgrades downloadable from [www.dcombus.com](http://www.dcombus.com)

### Applications

- Embedded Linux applications
- server based applications, firewalls, gateways, routers
- VoIP-PBX gateways & servers
- Video conferencing applications
- Symmetrical broadband connections
- Fast point-to-point connections, fast copper access
- LAN to LAN, WAN to LAN

### TECHNICAL DETAILS

#### Card type

- PCI vers 2.2 compliant. Short, full height card
- Suitable for 32b and 64b PCI bus slots
- Using 3.3V & 12V from the PCI bus or 3.3V only

#### Linux support & utilities

- Driver supports standard Linux kernel versions 2.4.4, 2.4.18 and 2.4.20, customizable
- RetiMan menu-based interface for configuration & management
- Reti\_line command line interface

#### Interfaces, shdsl (2x)

- Speed selectable between 128 kbps to 4.608 Mbps in 64k increments
- TC-PAM (Trellis Coded Pulse Amplitude Modulation) shdsl line code G.991.2
- LED indications: (1) LOS, (2) line config in progress, (3) OK
- RJ-11 connectors

#### Operation distances, shdsl interfaces

- 9.5 km @ 512 kbps
- 6.5 km @ 2.3 Mbps
- 3.0 km @ 4.6 Mbps

#### Interfaces, E1 (2x)

- Clocking alternatives SW selectable: (1) Line clocking, (2) Line clocking from the other E1 line in the same card, (3) Internal clocking, or (4) External clocking from the ExtClk interface
- Packet or stream mode operation (sw selectable)
- LED indications: (1) LOS, (2) AIS, (3) OK
- RJ-45 connectors

#### Operation distances, E1 interfaces

- 1.5 km @ 2.048 Mbps
- Selectable Short haul/long haul

#### Temperatures

- Operational 0 to +40C, storage -20 to +60C

Manufacturer, Sales, Technical Support: Design Combus Ltd., Rantatie 27, FIN-33250 Tampere, Finland  
 Tel: +358-3-345 8800 fax: +358-3-345 8850 info@dcombus.com www.dcombus.com