Hardware Description
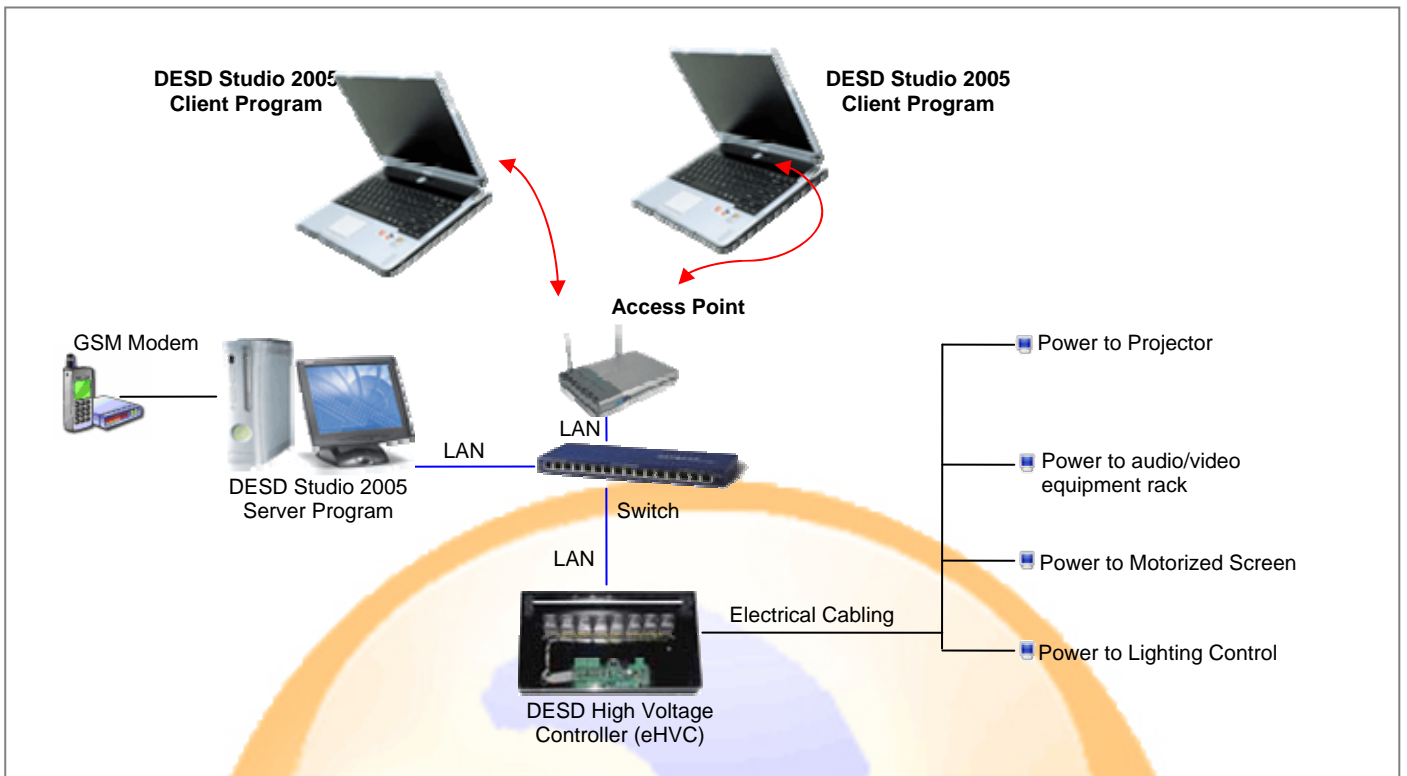
❖ Works in conjunction with the DESD Studio 2005– Automation Made Easy Software

❖ Suitable for home, office, classroom and factory automation where high voltage (110 or 240 Vac) need to be controlled remotely & safely

❖ No programming skills required

The advantages :

❖ Replaceable parts: the high voltage relays are replaceable (using the same relay specifications) should any of them turns malfunction

❖ Use higher contact rating relays: other higher contact rating relays can be used instead of the one that comes together with the unit. The open collector capable of supporting maximum 12 mA current sink per output port

❖ Simplified wiring (control and electrical cables) in the integrated system

❖ Reliable and stable connection using UTP

❖ Customer need to know the electrical wiring or hire the electrical installer

❖ Modular design hence low maintenance cost in the near future

DESD Studio 2005 Client Program

DESD Studio 2005 Client Program

Access Point

GSM Modem

LAN

DESD Studio 2005 Server Program

LAN

Switch

LAN

DESD High Voltage Controller (eHVC)

Electrical Cabling

Power to Projector

Power to audio/video equipment rack

Power to Motorized Screen

Power to Lighting Control

Technical Specifications:

- ❖ Ethernet connection 10 Mbps
  - ➢ Protocols   TCP, UDP, DHCP
  - ➢ Protection   Built-in transformer with 1.5 KV magnetic isolation
- ❖ Relay   8 of 10 Ampere (double pole double throw) relays
- ❖ Open collector   Able to stand maximum 12 mA (should user need to drive other high voltage relays) current sink per output port
- ❖ RS232 port   DB-9 Male
  TTL (TxD, RxD, RTS, CTS, DTR, DSR, DCD, GND)
  - ➢ Parity   None, Even, Odd
  - ➢ Data bits   8
  - ➢ Stop bits   1, 2
  - ➢ Flow control   RTS/CTS, XON/XOFF
  - ➢ Baudrate   300 bps to 115.2 Kbps
- ❖ Configure   DESD Studio 2005 software (Edit mode)
- ❖ Power requirement
  - ➢ Power input   12 to 24 VDC
  - ➢ Consumption   200 mA
- ❖ Operating temperature 0 to 70 degree C (32 to 158 degree F)

Should you require further information on the system design and setup, hardware requirement, cabling needed and costing, please contact Earnestcom via the email: sales@earnestcom.com

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