VOLAMP LTD

FIBRE OPTIC COMMUNICATIONS - DESIGN - DEVELOPMENT - MANUFACTURER

SYD
FIBRE OPTIC LINE DRIVER

FEATURES:

- **Duplex RS232 standard core diameter fibres**
- **Data control and clock lines supported. Clock lines generated or may be an input.**
- **DC TO 64.kdbs per second**
- **Asynchronous/synchronous**
- **Pressed steel housing for EMI and RFI resistance.**

TECHNICAL DESCRIPTION:

Model SYD Fibre Optic Line Drivers are used in pairs to extend RS232 links via a Fibre Optic cable. The applications include longer RS232 links than can be obtained by copper conductors, data security from physical tampering and RFI admissions, data protection from environmental, noise and earth loop.
The Model SYD supports modem control signals RTS, CTS, DSR, DTR and DCD. It also supports clock generation and will receive a clock up to 64kdbs. Synchronous data rates are selected internally by a switch. All data lines are RS232 compatible and power may be supplied either on pin 9, or via an external jack.

SPECIFICATION:

OPTICAL :- Optical sensitivity :- 1uw-30dBm
Max Receive power :- 10dBm
Power budget :- 50um fibre -10dB , 62.5 um fibre -13dB
V24 Date rate :- DC to 38.4kbps asynchronous , 64kpbs synchronous
JITTER DATA :- Control lines < , Clock :
ENVIRONMENT :- Temperature :- 0oC to 70oC, Storage: -25oC to 70oC, Humidity: 10% to 90%
MECHANICAL :- Totally enclosed metal case
SIGNAL CONNECTORS :- 1 x 25 Dtype Plug , 1 x 2.5mm jack socket
WAVELENGTH :- 850nm . 2 x (ST) OR (SMA) F/O Connector
INDICATORS :- Power , Rx Output , Link , Tx Output
DIMENSIONS :- 79mm x 53mm x 15mm (overall) , 58mm x 46mm x 15mm (body)
WEIGHT :- 75g
ELECTRICAL :- External Power via jack socket tip positive or Pin 9 < 180mA @ + 8 -12V DC

Pin configuration

PL	NAME	DIRECTION

Baud Rate Select

SW2 OFF 64KB, ON (as table BELOW)

1	Frame	
2	TX	Out
3	RX	In
4	RTS	Out
5	CTS	In
6	DSR	In
7	SIG OV	
8	DCD	Input/Output
9	Power	In
15	TX CK	In/Out
17	RX CK	In/Out
20	DSR	Out

SW3	SW4	SW5	Baud Rate
OFF	OFF	OFF	2K4
OFF	OFF	ON	4K8
OFF	ON	OFF	9K6
OFF	ON	ON	19K2
ON	OFF	OFF	150
ON	OFF	ON	300
ON	ON	OFF	600
ON	ON	ON	1K2

SWITCH SETTING :-
SW1 ON -Pass through mode
SW1 OFF- DCD and clock generation internal
SW6 -DCD ON for output
SW7 -Rx Ck ON for out put
SW8 -Tx Ck On for output

SW1 ON - Pass through mode.

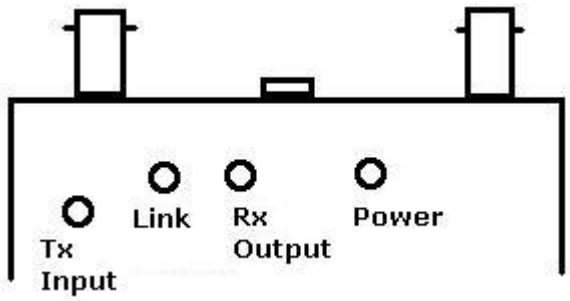
2--------<-------	Tx	Crossover	Tx	--------->--------2
3--------><-------	Rx		Rx	--------<--------3
4--------<-------	RTS	Crossover	RTS	--------->--------4
5--------><-------	CTS		CTS	--------<--------5
8-------<->------	DCD	Straight	DCD	-------<->------8
20------<--------	DTR	Crossover	DSR	--------->--------20
6--------><-------	DSR		DTR	--------<--------6
15------<->------	TxCk	Crossover	TxCk	-------<->-----15
17------<->------	RxCk		RxCk	-------<->-----17

SW1 OFF - DCD & clock generation internal.

2--------<-------	Tx	Crossover	Tx	--------->--------2
3--------><-------	Rx		Rx	--------<--------3
4--------<-------	RTS	Crossover	RTS	--------->--------4
5--------><-------	CTS		CTS	--------<--------5
8-------<->-----	DCD	Straight	DCD	-------<->------8
20------<--------	DTR	Crossover	DTR	--------->--------20
6--------><-------	DSR		DSR	--------<--------6
15------<--------	TxCk	Crossover	TxCk	--------->--------15
17------<--------	RxCk		RxCk	--------->--------17

Indicators

Indicators are locared on the underside of the unit.



View from underside

Tx and Rx lights will flash per packet of data received or transmitted.

Power ON :- if DC supply present.

Link ON :- if Fibre Optic link is correct and unit at far end is powered.

Order Code .	Description.
SYD/SM	**SYD LINE DRIVER -SMA CONNECTORS**
SYD/ST	**SYD LINE DRIVER -ST CONNECTORS**
PC1	**POWER CUBE, SINGLE**
PC4	**POWER CUBE, FOUR**

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