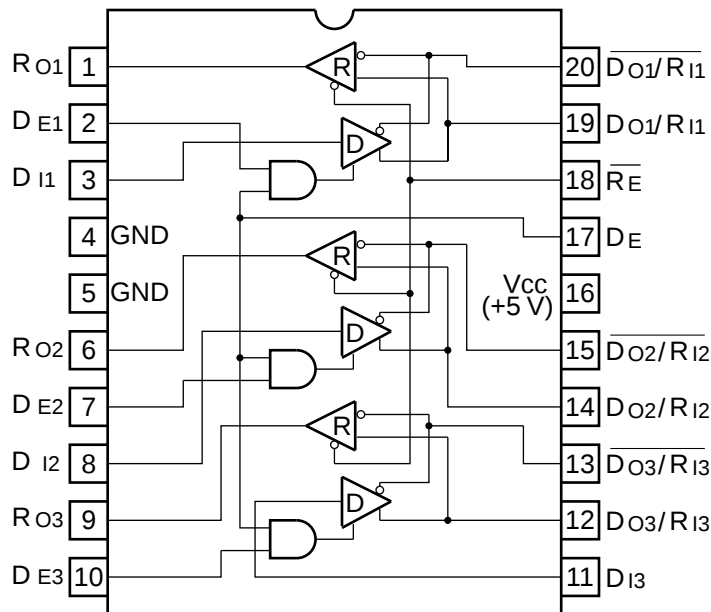


TRIPLE DIFFERENTIAL LINE TRANSCEIVER -TOP VIEW



DE ; ENABLE INPUT
DI ; DRIVER INPUT
DO, $\overline{DO}$; DRIVER OUTPUT
 $\overline{RE}$; ENABLE INPUT
RI, $\overline{RI}$; RECEIVER INPUT
RO, $\overline{RO}$; RECEIVER OUTPUT

FUNCTION TABLE

(1) DRIVER SECTION

INPUT (TTL)			OUTPUT (RS485)	
DIn	DE	DEn	Don	$\overline{DOn}$
1	1	1	1	0
0	1	1	0	1
X	0	X	HI-Z	HI-Z
X	X	0	HI-Z	HI-Z

(2) RECEIVER SECTION

INPUT		OUTPUT(TTL)
RIn - $\overline{RIn}$ (Differential Voltage)	$\overline{RE}$ (TTL)	Ron
$V_{ID} \geq 0.2 V$	0	1
$-0.2 < V_{ID} < 0.2 V$	0	OUT
$V_{ID} \leq -0.2 V$	0	0
X	1	HI-Z

0 ; LOW LEVEL
1 ; HIGH LEVEL
X ; DON'T CARE
HI-Z ; HIGH IMPEDANCE
OUT ; OUTPUT LEVEL