-13/8259 PDP:

End of Interrupt (FOI) Command:

- 1) Mon speaffic tost
- 2) specific EOD
- 3) Automatre EOI

BOI command resets the set bot en Der after the Interoupt to sowed.

1) Non speaker Intorrupts

when 8259 receives three command, It will next the high polo possority IR level set bet of ISR.

2) Speake - EOD

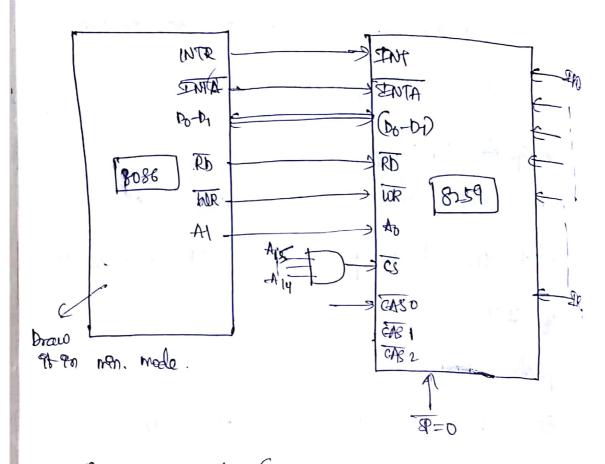
8259 has & IR levels. Each IR level
can be specified by 8 bit address when
this command is given to 8259, tit will reset
the specified IR level of ISR.

3) Automothe to1:

In supposse to the first INTR pulse, 8759
will the sent the corresponding INTO IR
level of DSR

and an response to 2nd INTA pulse,
8259 will reset the cornesponding set bit of
TESR by growing these command.

8259 Interfacing to 8086!



Command coords: (CW)

Frotratisation

Operational CW's

CW's

EWI

SEW 2

DSW1

DSW2

DSW2

DSW2

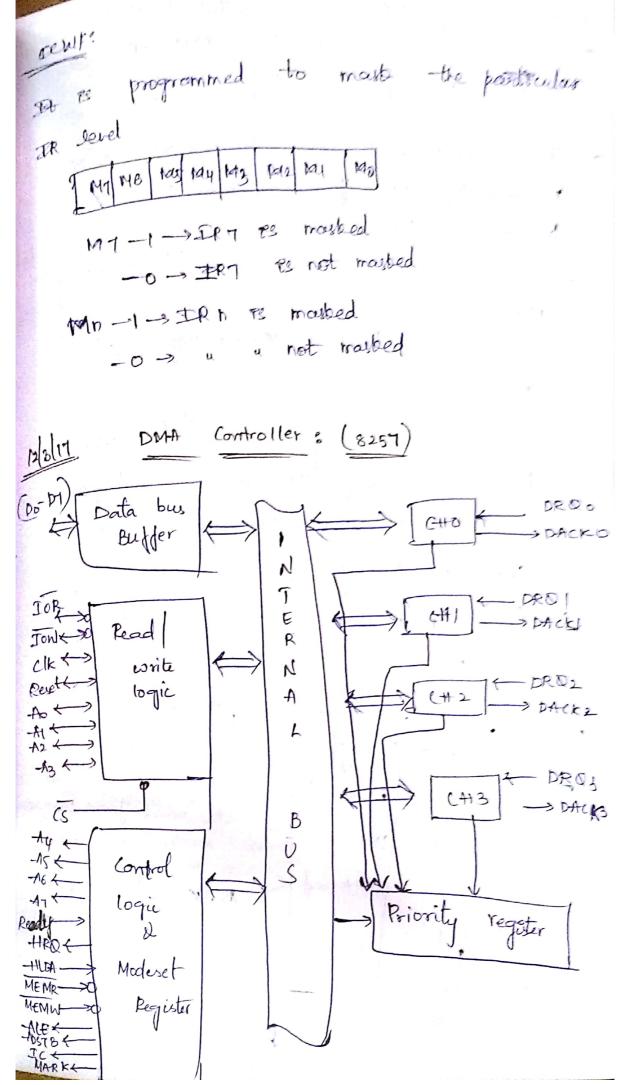
DSW2

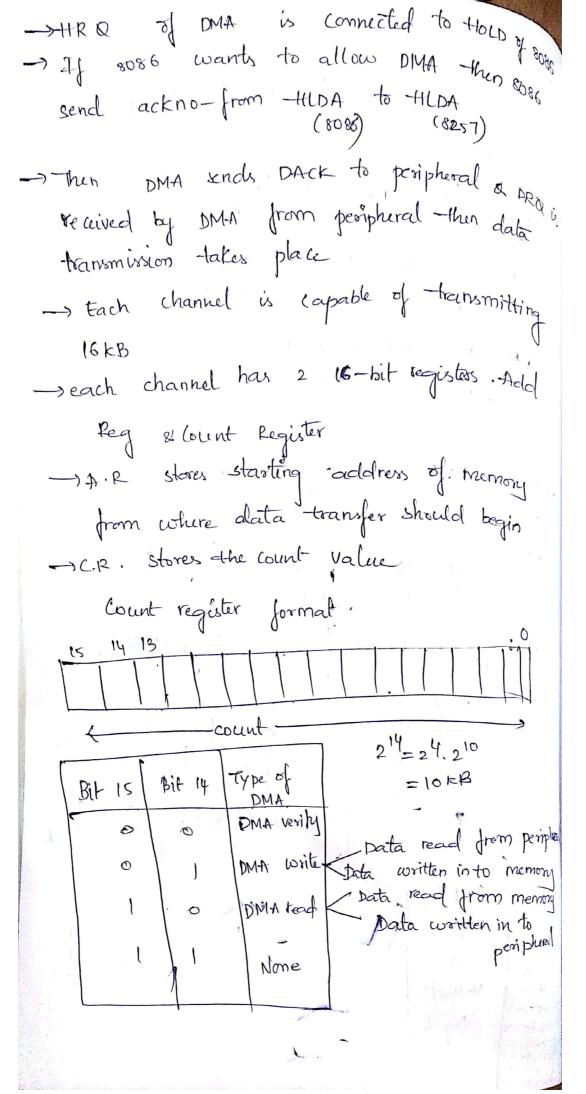
DSW2

DSW2

DSW2

Atto Atleast 2 sem's are required

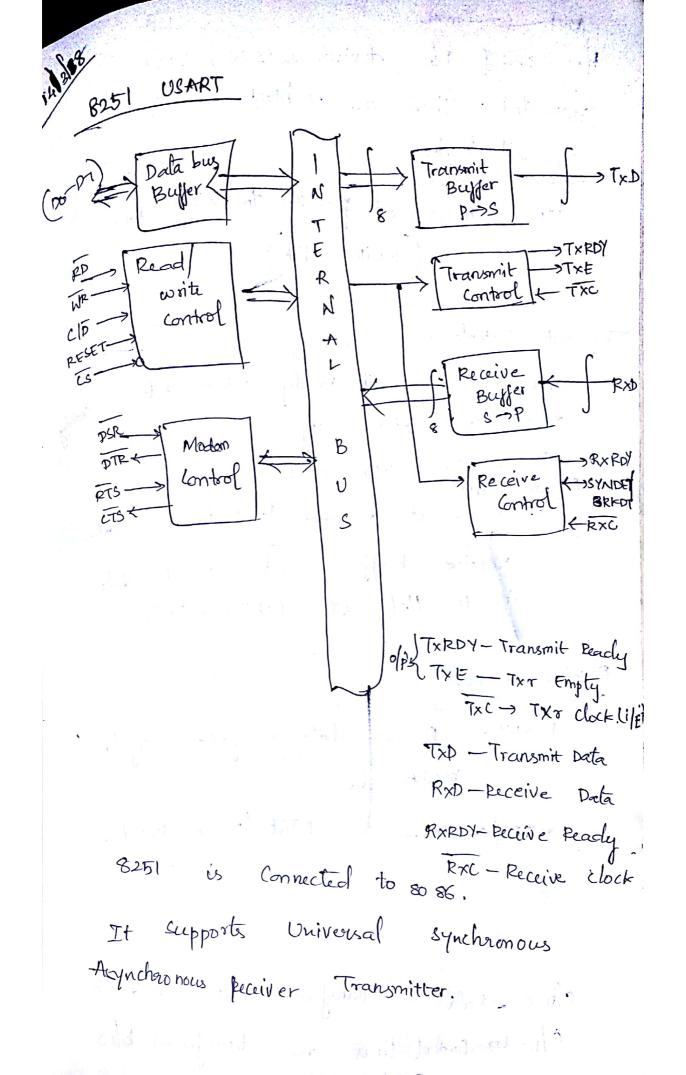




s channel o has high pressty (13 low pressity. , note his hiffen reseal to to send data or control sagnels. Ab-Az ane used to select registers, A3 A2 A1 A1 0 0 0 0 - ctto-AR 0 0 1 - ct16-ck 0 0 - CH1-AR 0 0 1 1 - CH # - CR 1 0 0, - CH 2-AR 1 0 1 - CH 2-0R; 0 1 1 0 - CH3-AR 0 1 1 - CH3 - CR 0 0 0 - control/status word. -> 8257 B operated in 3. states) Idle state-performs nothing 2) Slave u - lip will's write CN to 8257/reads SW from 8257 3) Master in - 8257, will control the system - IER, IDW, AO A3 used as t/p's during slave & ofpis diving master. - TREMA - Memory Read. It is active during MAD read.

- MEMIN - Memory Write. It is adopt active dwong DMA withe -> AEN-Address Frable 21 => used to disable () -> ADSTB- Address strobe - used to latch bogg -> TC - Tourand count-when data transfer & completed then TC=1 -> MARK- for every 128 cycles of 75 going to be high. It indicates present DNAA yele 98 12th from previous mark op. Morb always occur at 128 cycles from the end of data blat types of DMA transfore Byte - Byte by byte transfor. Block - Block by block transfer. En: Total data loke Block size Ika Demand-until 10 top of data transformed. 8257 does nothing. Interfacing 8257 with 80% 8086 Man'm mode connect all 8257 DMA

Scanned by CamScanner



825t is Contre Hw serial Ilo devices & 8086, 825/4 Connected. There are I blocks Transmit buffer:

Used to convert parallel to semal data (8bit-)1bit)

Transmit Controls:

TREDY - Transmit ready- when date is req TXE-Transmitter empty

Transmitter clock

Receive Buffer:

Rex D - it is used to receive sevialate.

Receive bouffer Converts serial data in to llel data (16it - 8614)

Receive control:

RKRDY - Receive data ready = 1 => ready to teceive data

SYMPET BRKDT - sync Detect / Break Detect.

C/D=0 => Data is transferred du 825/ 81 8086 transferred bles C/D=19 Control lines are 825 | & 8086

DSR DTR RTS CTS

Fire is ip. It is checked by CPU using status
The is ip. It is used to check if the data
read eperatn. It is used to check if the data
read eperatn. It is used to check if the data
read execution is ready when communicating with a
modern

DTR - Dota Terminal Ready → 0 | p. Used to indicate that the device is ready to accept data when 8251 is Communicating with a modern.

Fits - Request to kind -ilp. when it is zero, it inclicates modern that the receiver is ready to receive a data byte from the modern.

To - clear to send

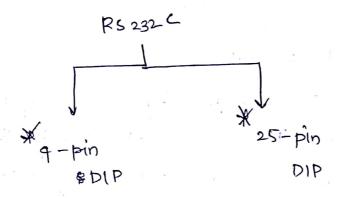
-10/p. when cTs =0, 8251 is enabled to transmit serial data provided the enable bit in the command byte is set -

Command words:

> Serial common standard or protocol

which is connected blu 8251 & 5/0 devices

-> EIA (Flectronics Industrial Association) in 1900 introduced this convector.



It is developed before TTL logic level

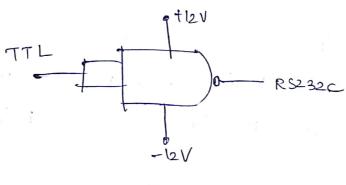
(5V-logic),

OV-110)

RS232 C logic levels:

+3V to +15V -> logic o'
-3V to -15V -> logic i'

hime Driver: Used to Convert
TTL to 25232C



JC 14 88.

Line Receiver:

