

2가 가 .

가

(80286 16 , 80386, 80486 32 32

64 .) HDD, FDD, VIDEO

가

가 , 가 ,

LAN, RS232 X.25 RS232 RS232 2가

RS232 NS 16C450 16C550 가 가

UART(Universal Asynchronous Receiver/ Transmltter) . UART

TTL TTL

IC LINE DRIVER/RECEIVER RS232, RS422

RS485가 .

Specification	RS232C	RS423	RS422	RS485
	Single - Ended	Single - Ended	Differential	Differential
Driver/Receiver	1 Driver 1 Receiver	1 Driver 10 Receivers	1 Driver 10 Receivers	32 Drivers 32 Receivers
	15 m	1.2 km	1.2 km	1.2 km
	20 Kb/s	100 Kb/s	10 Mb/s	10 Mb/s
	Full Duplex	Full Duplex	Full Duplex	Half Duplex
	±25V	±6V	-0.25V to +6V	-7V to +12V
	±15V	±12V	-7V to +7V	-7V to +12V

RS - 232 RS - 423(Single - Ended) RS422 RS485 가

가

.(RS422 2 가) RS232,

RS422 RS485 RS422 RS485 Driver Receiver

RS485 256 .

➔ RS232

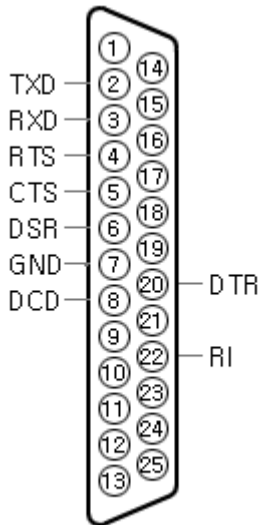
RS232C EIA(Electronic Industries Association (DTE: Data Terminal Equipment) (DCE: Data Communication Equipment) ,

DTE .

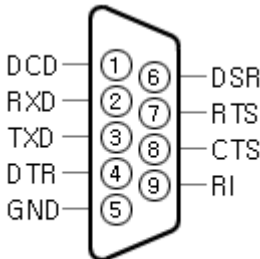
DCE

. RS232

, RS232



DB-25 RS232 코넥터



DB-9 RS232 코넥터



▪ TXD - Transmit Data

가

가

▪ RXD - Receive Data

▪ RTS - Ready To Send

DTE 가

DCE

가

▪ CTS - Clear To Send

DCE 가

DTE

가

▪ DTR - Data Terminal Ready

가

가

▪ DSR - Data Set Ready

가

가

▪ DCD - Data Carrier Detect

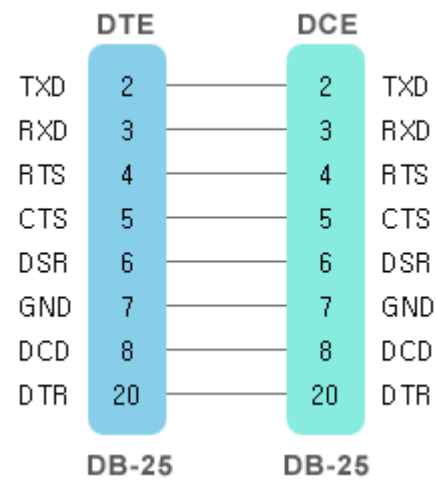
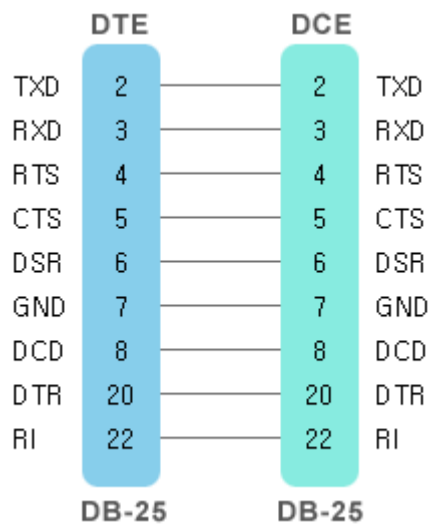
▪ RI - Ring Indicator

가

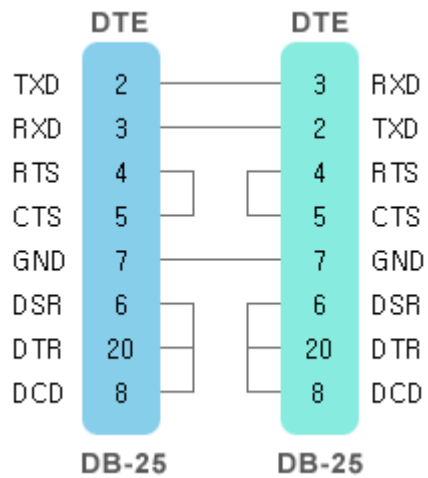


DTE to DCE 9 Wire Cables

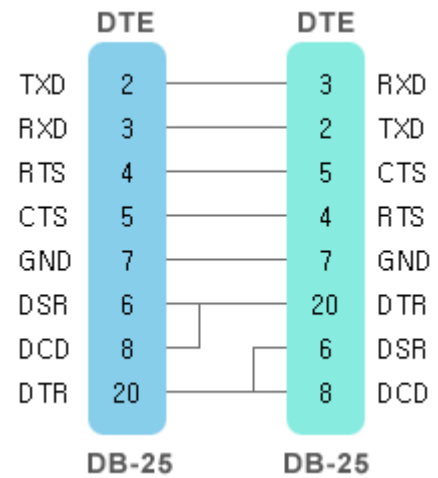
DTE to DCE 8 Wire Cables



DTE to DTE 3 Wire Cables



DTE to DTE 7 Wire Cables

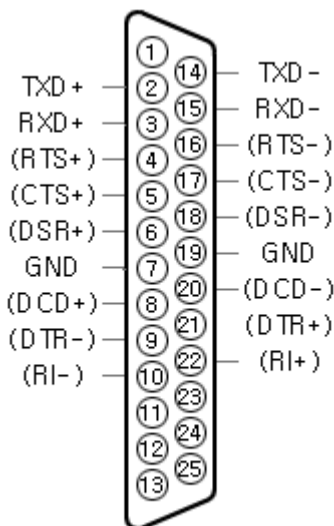


➔ RS422

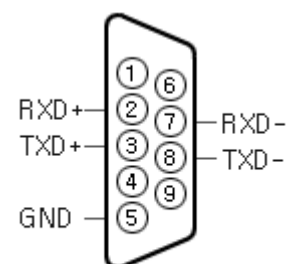
RS422 EIA

Point To Point Multi-Drop 가 가 Point To Point RS232 2 RS422
Multi-Drop 가 Multi-Drop , RS422

➔



DB-25 RS422 코넥터



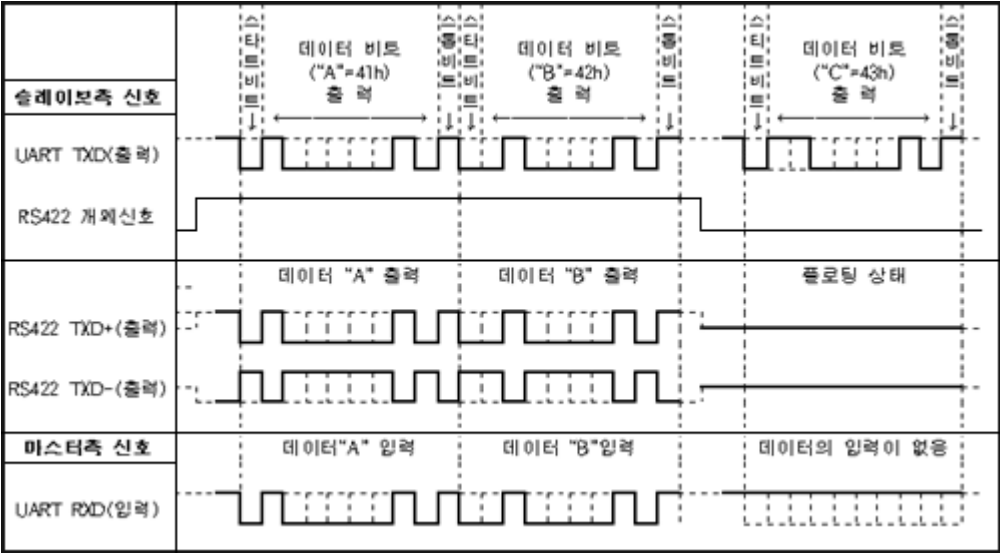
DB-9 RS422 코넥터

()

MULTI-1

TXD+, TXD-, RXD+ RXD-

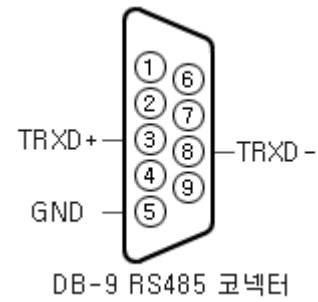
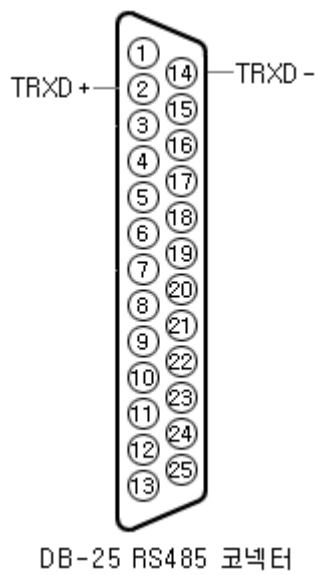




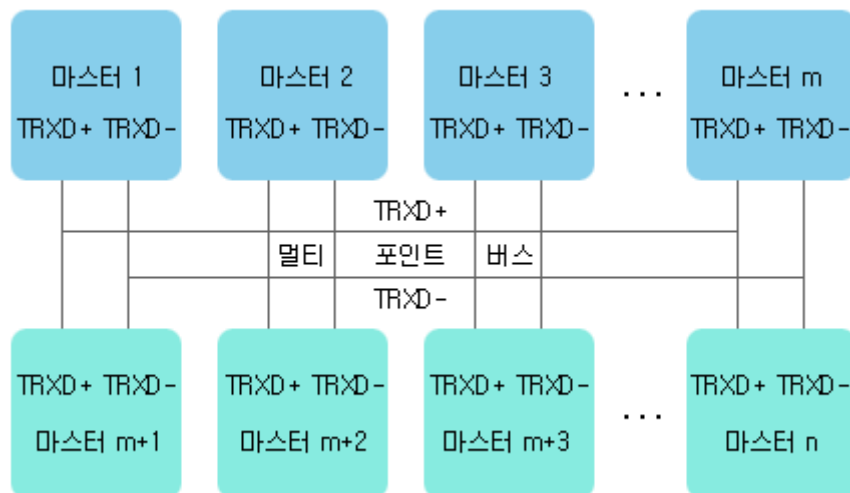
가 RS422 (Logic "1" Logic "0") .(UART TXD)
, TXD 가 RS422 Driver Enable to Output High Delay Time(tZH) Driver Enable to Output Low Delay Time(tZL) RS422 .(Logic "1")
tZH tZL nS . , S/W RS422
TXD TXD "B" 가 RS422 가
(Logic "0") 가 .
RS422 가 RS422 TXD+ TXD-
가 ("A", "B") UART RXD 가 ("A", "B") RS422
가 TXD+ TXD- 가 ("C")
UART RXD TXD
TXD+ TXD- TXD
RS422 RTS DTR RTS
TXD S/W 가 TXD 가 H/W가 S/W
(Multi-Drop S/W가)
MULTI-1 H/W 가 가

➡ RS485
RS485 EIA
RS232 RS422 Full Duplex가 Half Duplex RS422 Multi-Drop RS485
RS485 TXD (RS485 가 RS485)
RXD , RS485
Echo Non Echo 가 가
RS485

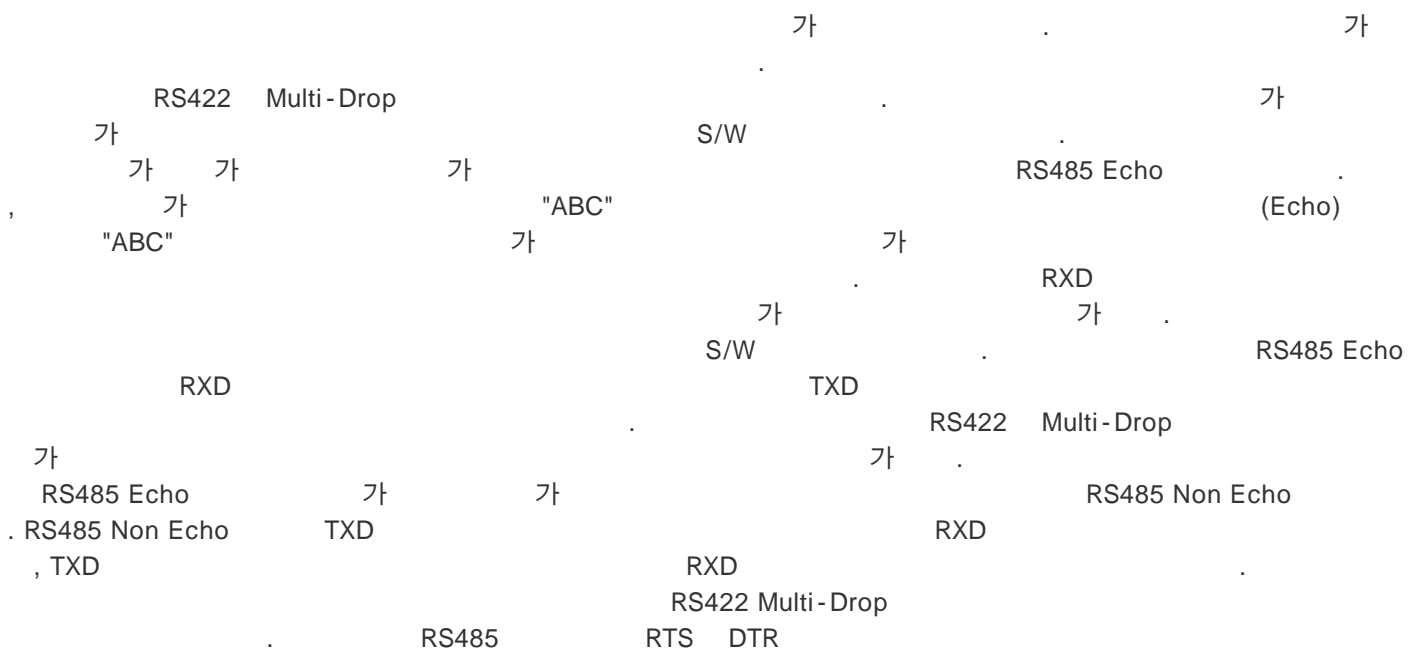




RS232 가 UART TXD, RXD



RS485 Echo, Non Echo



인쇄

