

ITS-CO-MDM

**Heavy Duty Industrial Purpose,
300bps – 2400bps 2W Leased-line,
Center modem Solution**

FEATURES

General Features

- Compact sized industrial purpose Shelf Modem
- Fully compatible with ITU-T V.22bis
- 2Wire leased line, full duplex operation
- 300bps to 2400bps data speed (Async.)
- AT command mode and AUTO connect mode
- Async. serial mode RS232 interface



Special Features

- 3-stage LINE surge protection structure
- DC Power input surge protection(TVSS)
- Free Voltage AC power operation
- 3U/84HP EURO Standard Shelf for 16ch. modem
- Dual Power Supply with Hot Standby mode
- 3U/4HP compact sized modem card
- 3.75KV Isolated DAA



SPECIFICATIONS

Compatibility

ITU-T V.22bis / V.22 / V.21 and
BELL 212A / BELL 103 Compatible

Data Speed & Encoding

2400bps	:	QAM	:	V.22bis
1200/600bps	:	DPSK	:	V.22 / BELL 212A
300bps	:	FSK	:	V.21 / BELL 103

Data Format

Asynchronous Serial
Data length : 8/9bit (with parity)
Parity mode : even/odd/none

DTE Interface

DB25 RS232 connector for each channel

LINE Requirement

2 Wire Leased Line or Direct Twist-Pair wire

Transmit Level

-10dBm (typ. @600 ohm)

Receive Dynamic Level

-10dBm --- -43 dBm

Flow Control

Hardware (RTS/CTS) flow control

Power

Free Voltage AC power

: 90 – 240V AC / 100W (max.)

Dual Power Supply (hot standby mode)

Physical Dimensions

Shelf : 480 W x 210 D x 132 H (mm)

Card : 160 x 100 mm , 4HP front panel

Environmental

Temperature : 0°C to 50 °C (Operating)

: -40 to 80 °C (Storage)

Relative humidity

: up to 95% (non-condensing)

DESCRIPTION**ITS-CO-MDM Solution**

MORU Industrial Systems의 **ITS-CO-MDM Solution**은 ITS(Intelligent Transportation System), TCS(Traffic Control System; 교통관제시스템), General TMTC등의 다양한 용도로 널리 활용되고 있는, 산업용 System의 중앙장치(Center System)를 위한 고밀도 고신뢰성의 집합형 모뎀으로서, 그 성능 및 환경 안정성이 뛰어나고, COMPACT하며, COST EFFECTIVE한 특징을 갖고 있습니다.

특히 LINE STATUS MONITORING LED 표출수단을 적용하여, 선로 품질 상태를 용이하게 확인할 수 있는 기능 등을 갖추어 운용 및 유지보수가 용이한 특징을 갖추고 있습니다.

INTERFACE PIN CONFIG.**DTE side pin config. (DB25 Standard RS232)**
(DCE mode 25P Female conn. for each ch.)

#	NAME	DESCRIPTION
1	FG	Frame Ground
2	TXD	Tramsitted Data
3	RXD	Received Data
4	RTS	Request to Send
5	CTS	Clear to Send
6	DSR	Data Set Ready
7	SG	Signal Ground
8	DCD	Data Carry Detect
9	-	-
10	-	-
11	-	-
12	-	-
13	-	-
14	-	-
15	-	-
16	-	-
17	-	-
18	-	-
19	-	-
20	DTR	Data Terminal Ready
21	-	-
22	-	-
23	-	-

24	-	-
25	-	-

LINE side pin config. (2P-1L Terminal Block)

(2point Terminal Block for each ch.)

	NAME	DESCRIPTION
1(UP)	LINE-TIP	TRX LINE
2(DOWN)	LINE-RING	TRX LINE

DIP SWITCH function (Modem Card)

	NAME	DESCRIPTION	
1	Function (@ auto mode)	ON	Answer mode
		OFF	Call mode
2	MODE	ON	Auto Connect
		OFF	AT Command

ORDER INFORMATION

#	MODEL NAME	SPECIFICATION	Availability
1	MRSR-3UDP-TA	Modem Subrack for ITS-CO-MDM with Dual Power	NOW
2	MRMB-3U1C-TA	Modem Card for ITS-CO-MDM (3U-4HP/1CH.)	NOW
3	Interface Cable	oem spec. RS232 Interface cable	order made

**Industrial Communication Leader
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* 성능 향상 등을 위하여, 예고 없이 제품 사양이 변경될 수 있습니다.