

IMODEM-24DU-VME

Heavy Duty Industrial Purpose,
300bps~2400bps 2W Leased-line Modem
for Korean Police Standard & COSMOS Standard

FEATURES

General Features

- Fully compatible with ITU-T V.22bis
- 2Wire leased line, full duplex operation
- 300bps to 2400bps data speed
- AT command mode and AUTO connect mode
- Async. serial mode interface
- Meets for korean police standard & COSMOS standard.

Special Features

- Total 3-stage line surge protection structure
- DC Power input surge protection
- Single DC power operation
(+5V single DC power input)
- SQ(Signal Quality) display
- 6U-6HP physical dimension
- Power on reset function included
- Watch Dog Timer function included
- Double Isolated DAA (3.75kV)
- Easy setting, Easy repair
(module type design.)

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

RS232 level Async. Serial Interface

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

RTS/CTS

Power

Single DC Source : +5V, 100mA max.

Line Isolation

3.75kV Line isolation

Environmental

Temperature : -34 to 74 °C (Operating)
: -40 to 80 °C (Storage)
Relative humidity : up to 95% (non-condensing)

DESCRIPTION

[MORU ITS Solution Boards]

모루시스템의 ITS Solution Board 제품군은 우수한 호환성과 검증된 현장 신뢰성 및 강력한 환경 내력을 갖는, HEAVY DUTY Industrial grade의 제품군입니다.

모루시스템의 ITS Solution Board의 종류는 다음과 같습니다.

- 경찰청 표준제어기용 BOARD 류
: LOOP/MODEM/GPS/PWIO(유선연동/보행입력 겸용)
: LSU/FLASH/SCU-Backplane
- ITS를 위한 산업용 통신장치 류
: ITS Center Modem (ITS-CO-MDM), Local Modem
: Center & Local용 Industrial DSU (MM-6400P-4D)
- LOOP DETECTOR 류
: 경찰청 표준제어기용 LOOP BOARD(4채널용/8채널용)
: 교통량 조사 시스템(VDS)용 LOOP Board
: 국도 Activate Control용 LOOP Board
: 차종 구분 형 LOOP Board (Order made.)

모루시스템은 꾸준한 연구개발 및 현장 기반 검증을 통하여, 보다 진보된 Solution을 보다 우수한 가격에 공급하기 위해, 항상 최선의 노력을 다 하겠습니다.

LED function description

NAME	COLOR	REMARK
PWR	Green	Power LED.
DSR	Yellow	Data set ready signal
RTS	Yellow	Request to send signal
CTS	Yellow	Clear to send signal
TXD	Green	Transmit data
RXD	Green	Receive data
DCD	Yellow	Data carry detect signal
SQ	Dual color	Signal quality display Green : Good signal quality Amber : Not good signal quality Red : Bad signal Quality

DIP SWITCH configuration

- SW2 (CTS Select)

SWITCH ID	REMARK	
2BIT DIP SW.	1(L)	OFF(L),OFF(R): Not used. OFF,ON : RTS >> CTS (F.SET)
	2(R)	ON,OFF : DCD >> CTS ON, ON : Not used.

Backplane Interface

J1				J2			
NO	A	B	C	NO	A	B	C
1				1	LINE 1		LINE 1
2				2	LINE 2		LINE 2
3				3			
4				4	FG		FG
5				5			
6				6	GND		GND
7				7	GND		GND
8				8	GND		GND
9	GND		GND	9			
10				10			
11	GND			11	TxD		
12				12	RxD		
13				13	RTS		
14				14	CTS		
15	GND			15	DSR		
16				16	GND		
17	GND			17			
18				18	DCD		
19	GND			19			
20		GND		20			
21				21			
22				22			
23		GND		23	GND		GND
24				24			
25				25			
26				26			
27				27			
28				28			
29				29	+12V		+12V
30				30	-12V		-12V
31	-12V		+12V	31	Vcc		Vcc
32	+5V	+5V	+5V	32	Vcc		Vcc

**Industrial Communication Leader
모루시스템(MORU Industrial Systems)**

경기도 군포시 당정동 522 , SK벤티움 101동 402호
T) 031-436-1510 , F) 031-436-1511
HOME PAGE : WWW.MORU.COM / WWW.BAPUL.COM
EMAIL : morusys@moru.com

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