



Verix Developer Training

Modem Engine

The Modem Engine



- § Provides Modem communication functionality
- § Depends on the underlying modem device
 - Internally packaged single path modem
 - Speeds up to 115200 in the OMNI 33XX
 - Speed of 2400 in the OMNI 37XX

Note: Refer the modem manual for a detailed listing of all the modem commands





§ Open and Initialize modem with xmdm_init()





§ Wait for a Line with xmdm_checkline()

```
while (xmdm_checkline(mdmHdl) != SUCCESS)
{
   if (act_kbd_pending_test(KEY_CANCEL))
     return (BRANCH_EXIT);
   display ("WAITING FOR LINE");
}
```



max_wait);



```
§ Dial with xmdm_get_line_dial()
status = xmdm_get_line_dial(mdmHdl,
szPhoneNum, &iWriteRetVal, hClock,
```





§ Send Data

```
status = xmdm_send_data (mdmHdl, packet,
    strlen(packet), max_xmit_time);
```

§ Receive Data

```
status = xmdm_receive_data(mdmHdl, buffer,
    min_len, max_len, timeout);
```



How to switch to SDLC



§ Example:

```
struct Opn_Blk ob;
do {
     dtr_type[0] = DTR_RTS_ON;
     bytes = set_serial_lines(modem_h, dtr_type);
     SVC_WAIT(50);
} while (bytes != 0);
ob.rate = Rt_115200;
ob.format = Fmt_SDLC | Fmt_DTR | Fmt_RTS;
ob.protocol = P_sdlc_mode;
ob.trailer.sdlc_parms.address = 0x30;
ob.trailer.sdlc_parms.option = P_sdlc_sec;
SetModemParameters(modem_h, ob);
```



LAB Exercise



LAB10: modem communication

Refer to sample application c:\verixvaps\act2000\samples\Xmodem

