

CYGNUS 803 2 Mbps CONVERTER Quick Start Installation Guide

Before installing the Converter, verify the leased line is of 2 Mbps (Unframed) or Nx64 kbps (Framed). If it is unframed 2 Mbps then you can directly connect the V.35 to E1 converter in the line as CYGNUS 803 Converter factory default configuration is unframed 2 Mbps.

- For configuring CYGNUS 803 converter, connect the PC Comm. port to the console port (9 pin Female) of the converter which is provided on the back panel.
- The PC Comm. port parameters should be as follows :
Speed - **9600 bps**
Data bits – **8**
Parity - **None**
Stop bit - **1**
Flow control – **None**
- When you access the supervisory functions through the console port, it is password protected and menu driven. The default password for logging in is the character “0”. When you log into the supervisory you reach its “Root” menu.

1. Unframed configuration (2 Mbps)

- To configure the converter for unframed - 2 Mbps speed (factory default), navigate through the menus to **configure factory default parameters** (2.1.7 of flowchart diagram) and type “Y” to load the factory default parameters.
- When system prompts to ignore password, press enter and navigate through the menus to **store the parameters in NVRAM** (2.1.5 of flowchart diagram) and type “Y” to save the parameters. Restart the system manually by switching it OFF & ON or go to **reset the unit** (2.1.6 of flowchart diagram) and type “Y” to reset the system through software.
- Verify the same by entering into the menus and select to **view the unit status** (1.0 of flowchart diagram). Verify the **Framing** parameter, it should be **Unframed**.
- The converter (V.35 to E1) should have **unframed** configuration.

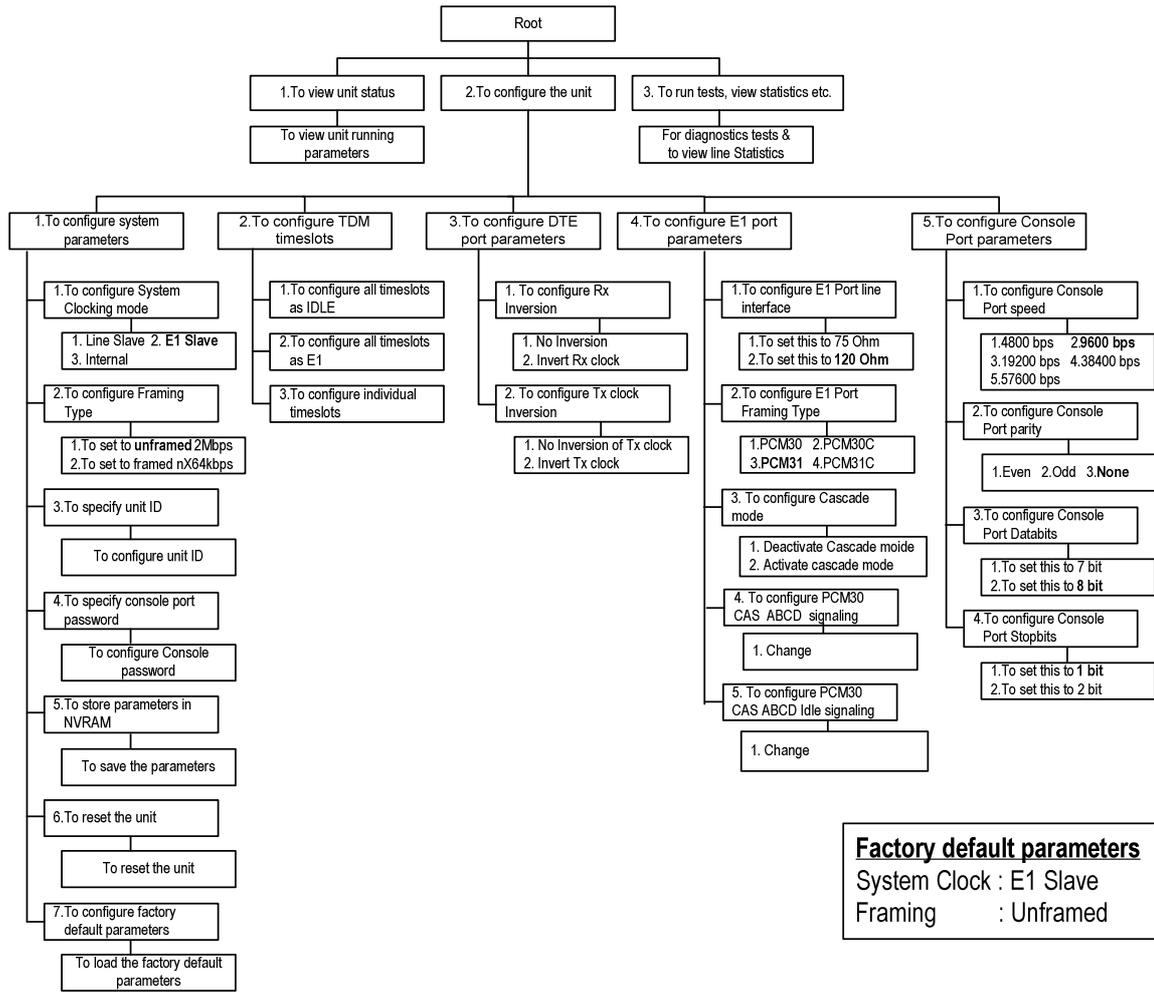
2. Framed (for 64 kbps, 128 kbps, 256 kbps, 512 kbps & 1 Mbps)

- If we need to configure the Converter for other than 2 Mbps speeds (eg. 128 kbps), follow the below procedure.
- To configure the converter for n x 64 kbps speed, you need to configure the framing type to framed and the number of timeslots (eg. for 128 kbps, slot 1 & 2) as E1.
- To configure framing type, navigate through the menus to **configure Framing Type** (2.1.2 of flowchart diagram) and select as **Framed**.
- To configure timeslots, navigate through the menus to **configure TDM timeslots** (2.2 of flowchart diagram). Each slot is of 64 kbps.
- If your speed is 1984 kbps (i.e. 31 x 64 kbps), select to **configure all timeslots as to configure all timeslots as E1** (2.2.2 of flowchart diagram) in V.35 to E1 converter.

- If your speed is multiples of 64 kbps (eg. 128 kbps i.e. 2 slots), then select **to configure individual timeslots** (2.2.3 of flowchart diagram) and you will get a prompt **to enter the timeslot**. Start with "1", select it as **E1** and continue up to the number of timeslots you required as per the speed (for 128 kbps only 1 & 2 slots should be E1 and remaining slots should be IDLE). For 256 kbps speed 4 slots and for 512 kbps 8 slots should be E1 keeping all other slots as IDLE.
- All the changes done in the configuration will take effect only after the same has been saved and the unit is restarted.
- To save the parameters, navigate through the menus **to store parameters in NVRAM** (2.1.5 of flowchart diagram) and type "Y" to save.
- Then you can restart the unit manually or by selecting **to reset the unit** (2.1.6 of flowchart diagram) from the **system parameters** menu and typing "Y".
- To see the configuration, select **to view unit status** and check **Framing**, it should be **Framed: PCM31** for V.35 to E1 converter.
- The converter (V.35 to E1) should have **framed** configuration.

After following the above steps for configuring, the modem is ready to be connected on line.

Menus Flow chart of CYGNUS 803 Converter



Factory default parameters
 System Clock : E1 Slave
 Framing : Unframed