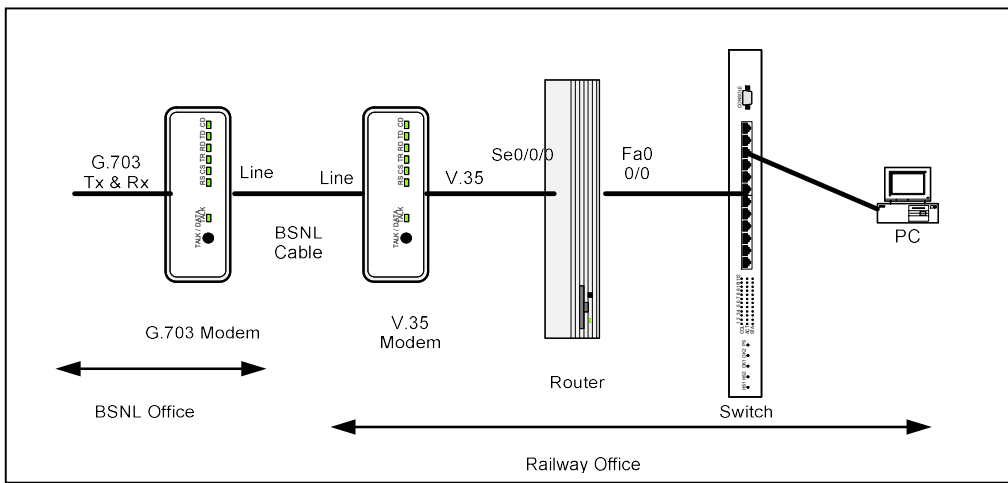


Establishing WAN

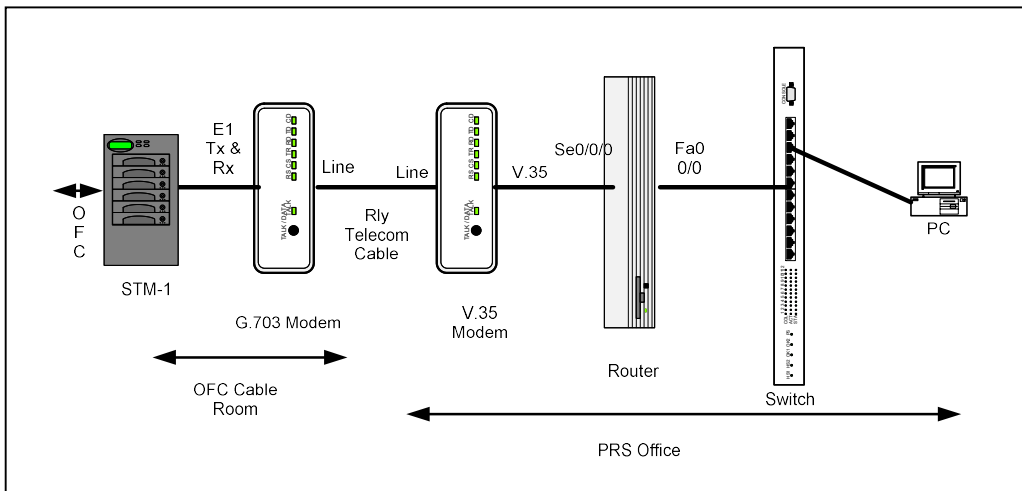
1) BSNL 64 Kbps Channel (PRS/UTS, FOIS Channel Connectivity)



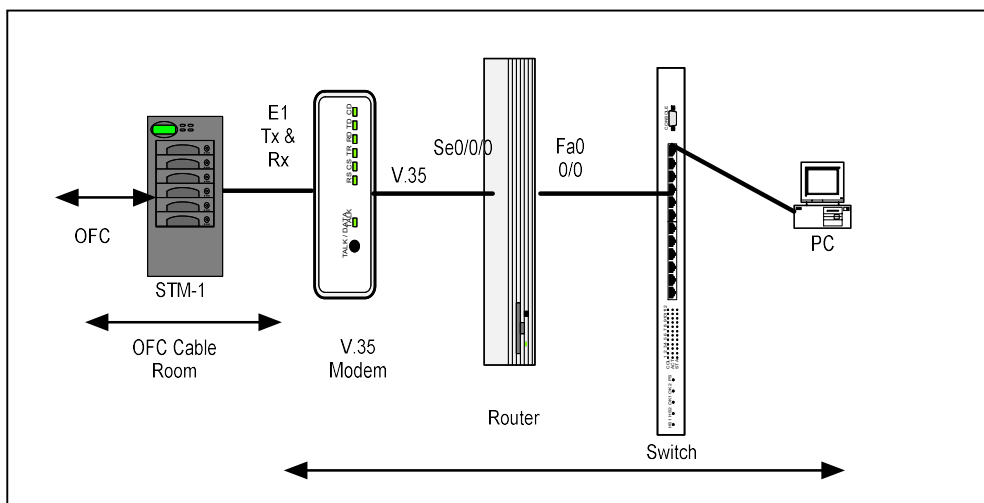
Modem

If Sync or CD indication is Permanent Green Indication, then Line is OK
LOS or ERR indication is ON, then line is faulty. (Router Se0-Serial Port, Fa- Fast Ethernet)

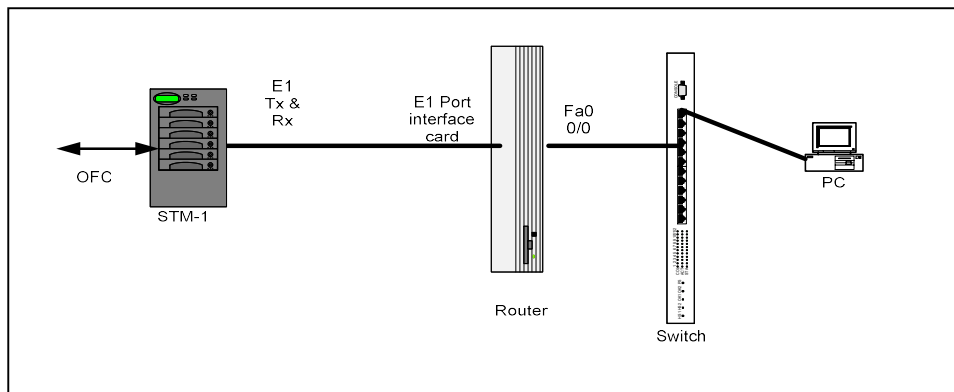
2) 2Mbps Railway OFC channel(Railnet, PRS/UTS, FOIS, DTES)



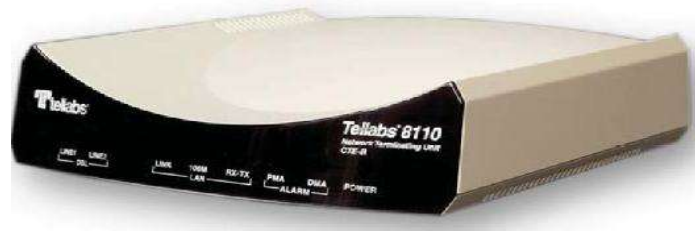
3) 2Mbps Rly OFC Channel at Way Stations where OFC Room and Booking Office in same building (nearby)



4)By using E1 Port Router (Railnet, PRS, FOIS). No Modem is required. Directly 2Mbps can be connected to Router. (Distance between STM and Router should be within 50 metre)



Tellabs 8110 MLLN Modem



It is a MLLN (Managed Leased Line Network) modem used to establish high speed serial data communication for extending PRS & UTS circuits between BSNL and RLY .

- Signal encoding and impedance TC-PAM, 135 ohms.
- Transmit level (dBm) Line bit rates 14.5 dBm. 2320 kbps
- Estimated maximum cable- length 4.8 km @ 2,320 kbps line rate.
- 6.2 km @ 1,168 kbps line rate.
- 6.6 km @ 592 kbps line rate.

LED Status

- When Power and Line 1 LED is Glowing – Modem Status is OK
- Power & PMA Led ON – Local Lead Break between BSNL and RLY
- Power & PMA LED ON , Line 1 Blinking – Earth in Local Lead
- Power & DMA LED ON – Hardware Problem

PMA – Prompt Maintenance Alarm – Local Lead Issue

DMA – Deferred Maintenance Alarm – Hardware Problem

LA – Local Alarm – Indicates that failure over the circuit is far above the tolerable limit.