

Realgain-2, base band modem type-128 provides 64 Kb/s and 128 Kb/s connectivity between two units located 7.5 Kms away using one 0.5mm (24 AWG) unconditioned twisted copper pair. The system consists of two similar modems, one configured as LTU and other configured as NTU. Both these modems combine together to drive full duplex data. The modems come with a wide range of customer interface as mentioned below to meet customer's needs.

Features

- 2-wire full duplex operation using unconditioned twisted copper pair.
- Echo cancellers provided for duplex operation.
- Loop back at various interfaces can be generated for fault diagnostics.
- OAM operations through VT 100 dumb terminal.
- Management software available for 19" Rack & shelf mounted systems.
- Customer end digital interfaces available, and there model versions are:
 - G.703 / V.35 Model Version type -128
 - G.703 / V.36 Model Version type -128 A
 - G.703 / X. 21 Model Version type -128 B
 - G.703 / V.11 Model Version type -128 C
- Single slot enclosure and standard 19" shelf are available for installation of the systems.
- 160 V to 240 V ac and -36 V to -60 V DC operations possible. Battery backup with battery charging (optional).
- Remote Powering (Optional).
- LCD display (16x2) for system status (Optional).

Specifications

System Applications

Leased Line Application / Always on Internet Services.

- Network to client @ 64/128 Kbps.
- Client to client @ 64/128 Kbps.

Network/Client Interfaces

- G.703 balanced network interface.
- V.35, V.36, X.21/V.11 client interface.
- N x 64 Kb/s (N=1 & 2) user configurable as bandwidth requirements.
- DTE, DCE soft configurable (optional).

Fault Diagnostics

- Loop-Backs
 - Exchange-to-Exchange loop back at LTU.
 - Exchange-to-Exchange loop back at NTU.
 - Customer-to-Customer loop back at NTU.
 - Customer-to-Customer loop back at LTU.
- Line Quality Test.
- Front panel LED & Display/ LCD (Optional).



Clock Options

- Internal Clock/ External Clock
- User derived clock from G.703 interface or DTE supplied Trans. Clock
- Line Clock

LTU/ NTU Transmission

- Complies ETSI STR 080 and ITU-T G.961
- 2B1Q coding with adaptive echo cancellation & equalization
- Line Rate: 160 Kb/s

Front Panel Indications

- SYNC 1 Indicates link in Sync.
- SYNC 2 Not enabled.
- MARGIN Indicates presence of line side fault conditions.
- LOS Indicates Loss of Signal at user interface.
- TEST Indicates System is under test.
- TD Indicates data is being transmitted.
- RD Indicates data is being received.
- +5V Indicates presence of +5V D.C.
- FAULT Indicates fault condition at remote end.

Switches & Displays

- Single digit seven-segment display for system status.
- DB 9 for RS 232 port for configuring the card through VT100.
- Front panel function switch for various diagnostics.
- Test Port

LCD features (Optional)

- 16 character x 2-line LCD provided on the front panel.
- System Information, Configuration, Alarm Status & Fault Diagnostics can be performed through LCD control switches.

Mechanical

- Single Slot Enclosure (W x D x H) : 245 x 306 x 62 mm
- Rack with single 19" Shelf (W x D x H) : 586 x 355x 535 mm

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