



Realgain-2; 64 Kbps, Co-Directional Modem

Overview

Realgain-2, provides 64 Kb/s and 128 Kb/s connectivity between two units located more than 8.0 Km away using one 0.5mm (24 AWG) unconditioned twisted copper pair using 2B1Q ISDN line coding. 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 interfaces G.703, V.35, V.36, X.21 etc as mentioned below to meet customer's requirements.



Key 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
- SNMP compatible management software available for shelf mounted systems
- 15 Nos. of Systems can be incorporated in a 19" shelf
- Single slot enclosure and standard 19" shelf are available for installation of the systems
- 220VAC & 48VDC power supply
- 2 wire Telephone port available for Hot line communications between two stations connected on the leased line
- LCD display (16x2) for system configuration, status & maintenance
- Complies with EMI/EMC specifications CISPR 22 {1993} for Class B equipment.

Applications

- Leased Line Application / Always on Internet Services
- Network to client @ 64/128 Kbps & Client to client @ 64/128 Kbps
- Hot-line operations with data connectivity

Specifications

Model	Realgain-2
Hardware Specifications	
Power supply	230 V A.C nominal (160V to 240V) / -48 V D.C nominal (-36V to -60V)
Dimensions	Single Slot (S. S.) Enclosure: 245 x 306 x 62 mm & 19" shelf: 586 x 355 x 435 mm
Operating environment	-15 ~55 degree C, 5%~90%RH
DSL Line Interfaces	
	ISDN line complies to ETSI STR 080 and ITU-T G.961
Copper pair/pairs	One
Line Coding & Impedance	2B1Q line coding; 135 Ohms
Protection	ITU K.20 & K.21
Connectors	RJ45 & Terminal Block
Network Interface	
G.703	
	120 Ohms
Standards	Complies with Co-Directional 64 Kbps G.703
Line Code	AMI
Clock Options	Internal Clock/ External Clock/ Recovered Clock
Connectors	RJ45/Terminal Block & BNC
Synchronous Interface V.35/V.36/X.21/RS530	
	Standard M34 pin Connector
Data Rate	Client interface data rate 64/128Kbps/sec
Bandwidth	N x 64 Kbps (N=1 to 2) user configurable as bandwidth requirements
Control signals	DTR,DSR,DCD etc signals are supported
Clock/data	Inverting/Non-inverting Slave/Loop
Interface	DTE, DCE & async (optional)
Management	
Front panel LEDs	<ul style="list-style-type: none"> • Power supply Indication, • Sync1: DSL synchronization. • Margin (1): Indicates status of link as marginal on pair-1 • TD/RD: Transmit & Receive data. • LOS: Loss of E1 signal. • Fault: Fault at remote end. • Test: System under TEST.
LCD with front panel switches	16x2 LCD for System Information, Configuration & Fault Diagnostics



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Loop backs	Compliant to ITU V.54 <ul style="list-style-type: none"> 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.
BER meter	Yes with PRBS generator & various data patterns.
Console	RS232 connector for PC connectivity.
Telnet/SNMP	Via External Ethernet Management port

Ordering Information

Realgain-2- XXXX - YY

XXXX (Options)

XXXX	Interface
052A	G.703 (Co-Directional)
052B	V.35
052C	V.35/G.703 (Co-Directional)
052D	Ethernet
052E	Ethernet/V.35
053F	Other Interfaces

YY (Features)

Features (YY)	Power Options	Display Type		Mechanical	
		Single Digit Display	LCD	S.S	Shelf
00	220VAC	-	√	√	-
01	48VDC	-	√	√	-
02	220VAC/48VDC	-	√	√	-
03	220VAC	√	-	√	-
04	48VDC	√	-	√	-
05	220VAC/48VDC	√	-	√	-
06	48VDC	√	-	-	√

Note:

7seg = 7 Segment Display

S.S = Single Slot Enclosure.

Remote powering & wetting current options are available on request. Please contact factory for customer specific requirements.

Manufactured By:
 RealTime Systems Ltd.
 247/29, Block-D, Sector-63
 Noida-201301 (UP)
 Ph.No. +91-120-4141500
 Fax No: +91-120-4141549
 E-mail: inquiries@rtsindia.com

Visit us: rtsindia.com



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