

RC1102-FE-4W G.SHDSL.bis Modem

The RC1102-FE-4W is a G.SHDSL.bis modem which extends distances of fast Ethernet service with variable data rate from 64 kbps to 11392 kbps using TC-PAM (Trellis Code – Pulse Amplitude Modulation) technology. The modem using four-wire copper cable offers capabilities equivalent to normal HDSL modems on four pairs, offering 50 % saving in copper cost. G.SHDSL.bis technology extends transmissions farther than any other DSL technology, opening the door for service providers to deliver low cost and broadband access to a wider subscriber base. They fast and cost-effectively extend Ethernet distance up to several kilometers via one or two pair of 0.4mm twisted cable, which is widely and commonly used in subscriber local loops. As to one-pair cable line when the speed is 2304Kbps the distance can be 4Km though 0.4mm noise-free copper cable. And if 5696Kbps speed of one-pair cable is used the transmission distance could be 2Km through the same 0.4mm noise-free copper cable.

The RC1102-FE-2W modems are designed as rack-mountable modules, which can be inserted into RC001-1D single slot and RC002-16 sixteen-slot chassis. It will occupy two-slot width in the RC002-16 chassis which is a multi-service modem pool supporting many kinds of other Raisecom modular device with the SNMP management availability. By using Raisecom's NNM network management system, both local and remote management can be implemented. All user configurable parameters can be set and monitored through NNM system.

Feature

Main Features:

Provides 10/100Mbps data connectivity on two unconditioned twisted copper pairs.

Support LED indicator on front panel for alarms indication.

Operates at multiple data rates between 64 kbps to 5696 kbps on one pair cable and 128Kbps to 11392Kbps on two pair cable.

Provides extensive diagnostics, including loopbacks, G.shdsl performance monitoring.

Support remote loopback and interface loopback

Support fault pass through function from line to client and from remote client to local client

Support BERT (Bit Error Rate Test) function

SNMP available for 19" Rack systems.

Support transmission quality monitor in NMS: ES, SES, UAS from one to 96 15-minute one to seven and 24-hour

System applications:

Client-to-Client : line speed on one pair cable is $N \times 64\text{Kbps}$ (where $N= 1$ to 89).
line speed on two pair cable is $N \times 128\text{Kbps}$ (where $N= 1$ to 89).

Line Interface

Type RJ45 connector, 4-wire unconditioned dedicated line (twisted pair)

Lind coding Trellis Coded Pulse Amplitude Modulation (TC-PAM)

Standard ITU-T G.991.2

Client Interface

Type fast Ethernet 10/100Mbps, RJ45 connector



RC1102-FE-4W Module

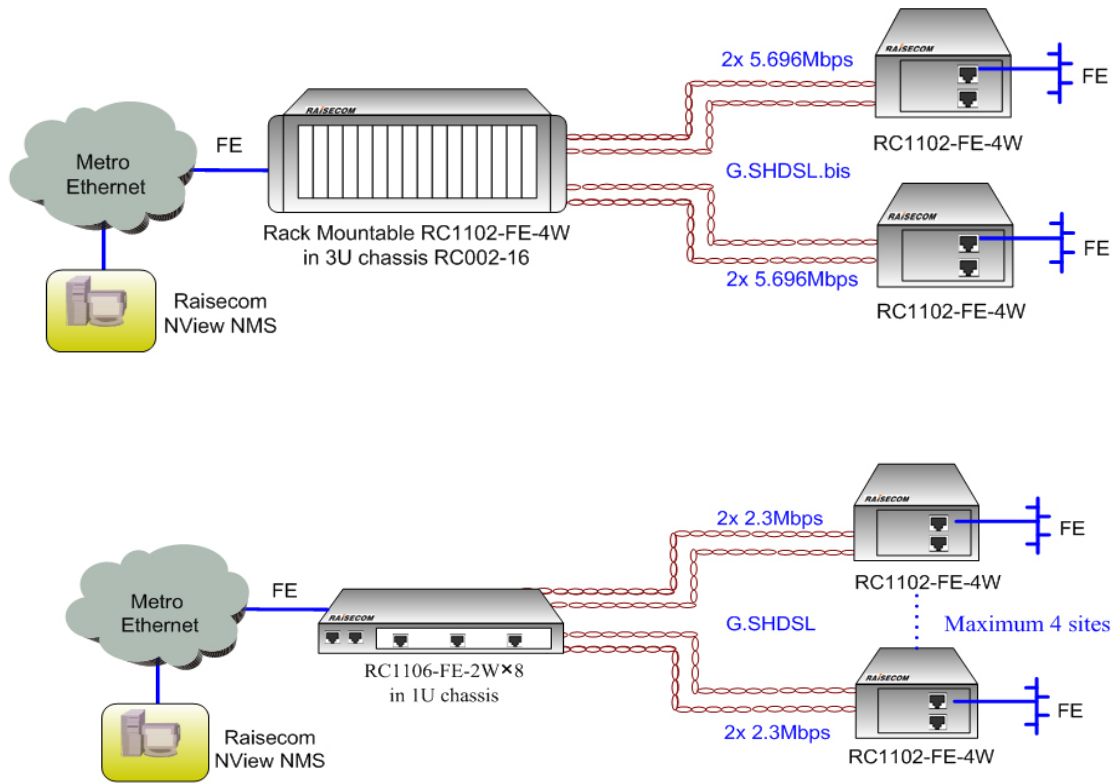
Specification

Interface	one 4-wire G.SHDSL port (RJ45) and one FE port (RJ45)
LED	Interface status and system status can be displayed on front panel
Ambiance	
Working temperature	0-45 degree centigrade
Storage temperature	-40-75 degree centigrade
Humidity	5-95% (non-condensing)
Power Consumption	<8W
Dimension (mm)	
Module	(WxHxD): 91x 50x 152
Single slot chassis	(WxHxD) :158x 64 x 200
3U chassis	(WxHxD) :440x 131 x 410

Compliance

ITU-T G.991.2

Typical Application



Ordering Information

RC1102-FE-4W	Module, remote-managed G.SHDSL.bis modem, provides one 10/100M Fast Ethernet port and one RJ45 port for 4-wire G.SHDSL.bis line.
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