



General

Operation Modes

Modem Termination (MT), Modem Passthrough (MPT),
Ethernet Termination (ET), Ethernet Passthrough (EPT)
PLM™ *Physical Loop Meter*

ATU-R Modem Chip Set

TI Texas Instruments

Standards Supported

ITU G.992.5 (ADSL 2Plus), Annex M, INP<=2
ITU G.992.3 (ADSL2/G.DMT.bis), Annex M, INP<=2
ITU G.992.2 (G.Lite)
ITU G.992.1 (ADSL1/G.DMT),
ANSI T1.413 Issue 2

Physical Interfaces

One RJ-11 WAN port and RJ-45 LAN access port on PIM for
MT/ MPT/ ET Modes
One RJ-45 LAN access port on CSA platform for EPT Mode
One bantam jack for PLM

LED Indicators

ADSL: Link, ACT, Alarm, PPP
Ethernet : Link, ACT, Speed
Loop : PLM (ACT, HV)
Module : On or Off

Control Information Window (CIW)

Control : Start/stop and reset
Timing : Indication of test start time, remaining time
States : Operation flow states with PASS or FAIL indication
plus elapsed time
Alarm/Event : Instant alarm/event reporting on any
occurrence under test

Modem Termination Mode

ADSL Control

- Modem Control

Modem open / close or retrain with trellis coding controlled
Programmable thresholds of link rate, SNRM in upstream/
downstream and link up time

- Scheduling Test

Programmable start/stop of time scheduled to test
Real time alarm/event logs with time/date stamped
Up to 10 interval results can be saved to MMC card for
storage and printing

Link Quality

- Link Up/Downstream Results

Link up rate (INTL or FAST), Estimated max. rate, Tx power,
Line attenuation, SNR margin and Capacity

- Global Statistics

FEC, CRC, HEC, NCD, OCD, LOS and SEF
Last cycle or accumulated in upstream/downstream

DMT PSD Analysis

Bit per tone, SNR per tone, SNRM per tone and QLN
(Quiet Line Noise) per tone presented in tabular and graphics
Zoom in/out and Bin/KHz conversion features

IP Layer Test

[SW Option, PIM-13X-SILT]

- IP Net Client Access

RFC 1483/2684 LLC/VC Bridged/Routed encapsulation
RFC 2516 PPPoE, RFC 2364 PPPoA
w/ RFC 1334 PAP/RFC 1994 CHAP PPP session authentication
w/ RFC 1332 IPCP addressing

RFC 1577/2225 CLIPoA

MAC Encapsulated Routing(MER) mode supported

Static & RFC 1541 DHCP addressing supported

IP information provided with addressing, mask, gateway & DNS

- IP Net Test

ICMP Ping

Programmable packet size and no. of pings with the no. of
ping sent/reply and RTD in max./ave./min.

Trace Route

Programmable timeout time in sec. with a list of IP host

name/address traced, no. of hops and echo time

Host target input in either IP address or URL

ATM Layer Test

- ATM Client Access

VPI/VCI provisioned in manual or auto-scanning

- ATM Net Test/Statistics

F5 E2E/segment OAM loop back cell test

The no. of OAM cell transmitted/received, loss and success
/fail indication

Internet Service Test

[SW Option, PIM-13X-SIST]

- Web Browser

True HTTP Web browsing (Konqueror compliant) with
packets/bytes received

- FTP Up/Download Test

FTP server response, upload or download time, file size,
throughput and packets/bytes received

Modem PassThrough Mode

ADSL Control

Same as Modem Termination Mode

Link Control

Same as Modem Termination Mode

DMT PSD Analysis

Same as Modem Termination Mode

WAN/LAN Passthrough Control

Same as IP Net Client Access with NAT for routing mode
DHCP Server supported on LAN port

LAN Traffic Statistics

Total Byte, Packet and Error Received
Utilization (%) and Unicasts / Broadcasts
CRC, Runt, Oversize, Jabber, Alignment and Collision
Last cycle or accumulated in upstream/downstream

ATM Traffic Statistics

AAL 5 frames/cells, CLP cells, PDU CRC and OAM cells
Statistics accumulated in upstream/downstream

Ethernet Termination Mode

[SW Option, PIM-13X-SETM]

LAN Client Emulation

PPPoE, DHCP and Static IP supported
IP information provided with addressing, mask, gateway & DNS

IP Net Test

Same as Modem Termination Mode

Internet Service Test

Same as Modem Termination Mode

Modem SNR Trace*[SW Option, PIM-13X-SSNR]*Modem SNR trace measurement presented in graphics
Customized feature, please consult factory for availability**Wireless LAN Test***[SW Option, PIM-13X-SWLAN]*

Emulating a WLAN client to scan for the signal presence of 2.4GHz, and detect all of available WLAN networks in region. Measures the quality metrics of network selected such as Signal Strength, Link Quality..etc.

Ethernet PassThrough Mode*[SW Option, PIM-13X-SEPM]***LAN Traffic Statistics**

Same as LAN Traffic Statistics in Modem Passthrough Mode

PLM™ Physical Loop Meter*[HW Option, PIM-13X-SPLM]*

	Unit	Range	Resolution	Accuracy	Leads
DCV	Volts	0~250	0.1	1%+/-1V	T-R,T-S,R-S
ACV	Vrms	0~250	0.1	1%+/-1V	T-R,T-S,R-S
DC Current	mA	0~200	1	1%+/-1mA	
Capacitance	μ f	0~4	0.001	1%+/-1mA	T-R,T-S,R-S
Resistance	Ohms	0~4000	1	2%+/-1digit	T-R,T-S,R-S
High Insulation (Leakage) Res.	M Ohms	1~1000		2%+/-1digit	T-R,T-S,R-S
Kick Test					Measuring the Voltage and Resistance on T-R,T-S,R-S continuously
RFL					Locate a Resistance Fault on a single conductor
Open/Short Meter					Measuring the Open(capacitance)/Short(Resistance) location calculated in distance based/w wire guage, cable type, temperature

Ordering Information**ADSL Triple Play PIM and Options**

PIM-13A-ADSLA	ADSL Triple Play PIM (Platform Interface Module) Annex A Standard Features
PIM-13B-ADSLB	ADSL Triple Play PIM (Platform Interface Module) Annex B Standard Features

Standard Accessories

256MB MMC card, ADSL WAN (PIM-ACC-CAB-WAN), LAN Cat 5 (PIM-ACC-CAB-LAN) and CSA platform/PIM operator's manual (Preloaded on MMC)

Software Options

PIM-13X-SETM	Ethernet Termination Mode
PIM-13X-SEPM	Ethernet Passthrough Mode
PIM-13X-SSNR	Customized Modem SNR Trace Test

PIM-13X-STPA-IPTV	IPTV Expert Analysis (PIM-13X-SEPM Option Required)
PIM-13X-STPA-IPTV-STB	IPTV STB Simulation (PIM-13X-SETM Option Required)
PIM-13X-STPA-VoIP	VoIP Expert Analysis (PIM-13X-SEPM Option Required)
PIM-13X-STPA-VoIP-SIP	VoIP SIP Phone Simulation (PIM-13X-SETM Option Required)
PIM-13X-STPA-DATA	Ethernet IP Analysis (PIM-13X-SEPM Option Required)
PIM-13X-SILT	IP Layer Test
PIM-13X-SALT	IP Client Access and IP Net Test with Statistics ATM Layer Test
PIM-13X-SIST	ATM Client Access and ATM Net Test with Statistics Internet Service Test
PIM-13X-SPLM	HTTP Web Browser/ FTP Performance Test Physical Loop Meter
PIM-13X-SWLAN	Wireless LAN Test Adapter

Optional ADSL Triple Play PIM Accessories

PIM-ACC-M1G	1GB MMC card
PIM-ACC-M2G	2GB MMC card
PIM-ACC-CAB-WAN	ADSL WAN Cable in 2M, RJ11(M) to RJ11(M)
PIM-ACC-CAB-LAN	LAN Cat 5 Straight Cable in 2M, RJ45(M) to RJ45(M)
PIM-ACC-CAB-DVR	DVRM Cable in 2M, RJ11(M) to T/R/G Alligator clips
PIM-ACC-MAN-ZZ	PIM Operator's Manual in English(Hardcopy)

ZZ= Operator's manual language

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