TP-LINK®

ADSL2+ Ethernet/USB Modem Router TD-8817



Latest ADSL standards for superior performance: up to 24Mbps downstream and 3.5Mbps upstream Various QoS policies enable various application, meeting people's different needs

Easy Setup Assistant provides quick & hassle free installation



Description:

The TP-LINK ADSL2+ Ethernet/USB Modem Router (TD-8817) is a 2-in-1 device that combines the functions of a DSL modem and 1-port 10/100Mbps Ethernet router. It offers both Ethernet and USB ports for flexible connectivity. It supports the latest ADSL 2/2+ standards to provide higher performance (up to 24Mbps downstream and 3.5Mbps upstream) and longer reach from your Internet Service Provider's (ISP) Digital Subscriber Line Access Multiplexer (DSLAM). You can also create a wired network to share your high speed Internet connection, documents, photos, music, videos, and printers.

The TD-8817 includes a built-in QoS engine that helps prioritize Internet traffic to enable smooth Internet phone calls (VoIP) and lag-free online gaming. In addition, this device includes Dual Active Firewalls (SPI and NAT) to help protect your network from potential attacks from across the Internet.

The TD-8817 also supports TR-069 which automatically updates the firmware and other settings when they become available from your ISP.

Featuring high ADSL performance, various QoS policy, easy-to-use, TD-8817 is a good choice to access to the internet.

Features:

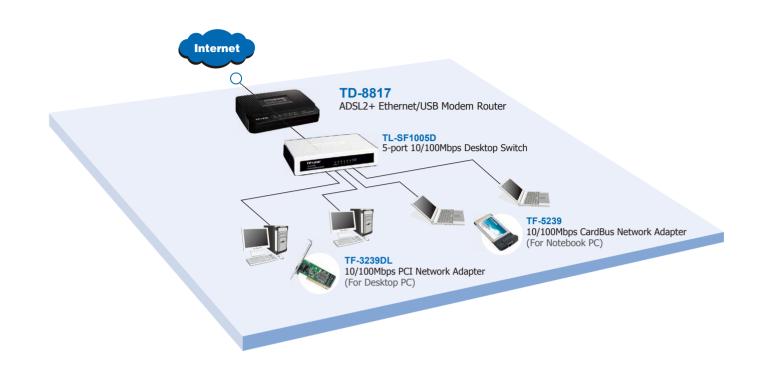
- Access a high-speed DSL Internet connection
- Supports Annex M, which can double upstream data rates
- Connect your computer using Ethernet or USB
- QoS prioritization based on ToS, DSCP or 802.1p
- Dual Active Firewalls: SPI and NAT
- Supports DHCP, Universal Plug-and-Play (UPnP), and includes a user-friendly Setup Wizard which takes you through configuring your network, step by step
- Administer and Upgrade the Router Remotely over the Internet

www.tp-link.com

Specification:

PHYSICAL SPECIFICATIONS Product Description ADSL2+ Ethemat/USB Modem Router WAN Interface 1 Ethemet port, support 802.3,802.30,1 USB 1.1 port LAN Interface 1 Ethemet port, support 802.3,802.30,1 USB 1.1 port Status Indicators Prove:USB, LAN, ADSL, Internet Dimensions (WD*H) 5.373.61.1 fn.(1492:28mm) ENVIRONMENT SPECIFICATIONS Operating Temperature -0.407C-0702(42*F-104*F) Storage Temperature -0.407C-0702(40*F-158/F) Operating Humidity DStorage Temperature -407C-0702(40*F-158/F) Operating Humidity 5% - 95% non-condensing Modulation 71.413.6.982.1 (G.dm), G.992.2 (G.Mite), ADSL2, ADSL2, ADSL2, Support Annex AV/ULM Data Valcory Max downstream velocity 2MApps(vith ADSL2+ enables), Max upstream velocity 2MApps(vith Annex M enables) Transferring Distance Max downstream velocity 2MApps(vith ADSL2+ enables), Max upstream		
WAN Interface 1 FJ11 port LAN Interface 1 Ehernel port. support 802.3.802.30, 1 USB 1.1 port Status Iniciators Power.USB. LAN. ADSL. Internet Dimensions (WDPH) 5.93 ef 1.1 in.(140°92'28mm) Operating Temperature -0°C-70°C(-40°F-168 °F) Operating Temperature -0°C-70°C(-40°F-168 °F) Operating Humidity 5% e 95% non-condensing ADSL_SPECIFICATIONS Modulation Modulation T1 413.6.922.1 (G.dml) 6.992.2 (G.lte),ADSL2.ADSL2.+ Support Annex AM/L/M Bate Velocity Max downsteam velocity 240.Bps(vth) ADSL2.* enabled), Max opstream velocity 3.50.Bps(vth Annex M enabled) Transforming Distance Max obstream velocity 240.Bps(vth) ADSL2.* enabled, Max opstream velocity 3.50.Bps(vth) Annex M enabled) Meduation T1 413.6.922.1 (G.dml) 6.992.2 (G.lte), IG.DMT), G.392.2 (G.Lte), G.392.3 (G.dml), S.992.9 and G.994.1 (G.DMT), G.392.2 (G.Lte), G.	PHYSICAL SPECIFICATIONS	
LAN Interface 1 Elhemet port, support 802.3, 802.30, 1 USB 1.1 port Status Indicators Power, USB, LAN, ADSL, Interret Dimensions (WD*H) 5.5°3.8°1.1 in (14029°22mm) ENVIRONMENT SPECIPICATIONS 0 Operating Temperature -0°C-70°C(1-40°F-163°F) Operating Numithy 5% = 5% non-condensing Storage Temperature -0°C-70°C(1-40°F-163°F) Data Velocity Met advantsteam velocity 24Mps(with ADSL2,	Product Description	ADSL2+ Ethernet/USB Modem Router
Status Indicators Power,USB, LAN, ADSL, Internet Dimensions (WPD'H) 5:73:8'1.1 in (140'922'38'mm) Centrol Contents 5:73:8'1.1 in (140'92'23'mm) Operating Temperature -0'C0'C(-3'FF-104'F) Operating Temperature -0'C-0'C(-4'FF-158'F) Operating Humidity 5% = 95% non-condensing Storage Fumidity 5% = 95% non-condensing ADSL SPECIFICATIONS Modulation T1:13:G. 992:1 (G.dmt), G.992.2 (G.lte), ADSL2, ADSL2, ADSL2, ADSL2, MSL, ADSL2, A	WAN Interface	1 RJ11 port
Dimensions (WPD*H) 5.5°3.6°1.1 in (140°92'29mm) ENVIRONMENT SPECIFICATIONS O°C-40°C(32°F-104°F) Storage Temperature -40°C-70°C(40°F-158°F) Operating Temperature -40°C-70°C(40°F-158°F) Operating Temperature -40°C-70°C(40°F-158°F) Operating Humidity 5% = 90% non-condensing Storage Humidity 5% = 90% non-condensing Storage Humidity 5% = 90% non-condensing Modulation T1 413,G. 992.1 (G.dmt),G.992.2 (G.lite),ADSL2,	LAN Interface	1 Ethernet port, support 802.3,802.3u, 1 USB 1.1 port
ENVIRONMENT SPECIFICATIONS 0°C-40°C(32°F-104°F) Storage Temperature -0°C-40°C(32°F-104°F) Storage Temperature -0°C-40°C(32°F-104°F) Storage Temperature -0°C-40°C(32°F-104°F) Storage Temperature -0°C-40°C(32°F-104°F) Operating Humidity 5% - 95% non-condensing Abst. SPECIFICATIONS -00% non-condensing Modulation T1.413.G. 992.1 (G.dmt), G.922.2 (G.lte), ADSL2, ADSL2+. Support Annex Al/U/LM Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled) Transferring Distance Max & Kiloneters Negotation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Intercoperability G.992.3 (G.dmt.bis), G.992.4 (G.lte bis), G.992.4 (G.Dmt) Protocols ATM UNI 3.144.0, ATM Adaptation Layer Type 5-AAL5: Multiprotocol encepsulation over ATM (RFC 1483.1 RFC 2684) (bridge & router modes) Service Classes of ATM UNI 3.144.0, ATM Adaptation Layer Type 5-AAL5: Multiprotocol encepsulation over ATM (RFC 1483.1 RFC 2684) (bridge & router modes) Victure GMM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IP Multicast IGMP Snooping (v1/V2). (GMP multicast)	Status Indicators	Power,USB, LAN, ADSL, Internet
Operating Temperature 0°C-40°C(32°F-104°F) Storage Temperature -40°C-70°C(40°F-183°F) Operating Thumidity 10% - 90% non-condensing ADSL <specifications< td=""> 5% - 95% non-condensing Modulation T1.413.G. 992.1 (G. dmt), G. 992.2 (G. lite), ADSL2.ADSL2*, Support Annex Al/JL/M Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled) Negotiation Process For speed, bandwitch and latency, synchronicity and ADSL activation based on ITU-T G. 994.1 (G. hs) Interoperability Interoperability with DSLM equipment that uses G. 992.1 (G. DMT), G. 992.2 (G. Lite), G. 992.3 (G. dmt), G. 992.2 (G. Lite), G. 992.3 (G. dmt), G. 992.4 (G. Lite), S. 992.4 (G. Lite), G. 992.4 (G. Lite), S. 992.4 (G. Lite), S. 992.4 (G. Lite), G. 992.4 (G. Lite), G. 992.2 (G. Lite), G. 992.2 (G. Lite), G. 992.4 (G. Lite), S. 992.4 (G. Lite), S. 992.4 (G. Lite), G. 992.2 (G. Lite), G. 992.4 (G. Lite), G. 992.</specifications<>	Dimensions (W*D*H)	5.5*3.6*1.1 in.(140*92*29mm)
Storage Temperature -40°C-70°C(-40°F-158°F) Operating Humidity 10% = 90% non-condensing Storage Humidity 5% = 90% non-condensing ADSL SPECIFICATIONS Modulation Modulation T1.413.G. 992.1 (G.dmt), G. 992.2 (G.life).ADSL2.ADSL2*, Support Annex ANULUM Data Velocity Max downstream velocity 2Mbps(with ADSL2* enabled). Max upstream velocity 3.SMbps(with Annex M enabled). Transferring Distance Max 6 kiloneters Negotiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability Interoperability G.992.3 (G.dmt. bis), G.992.4 (G.lite, bis), G.992.4 (G.lite, bis), G.992.2 (G.Lite), G.992.2 (G.Lite), G.992.4 (G.lite, bis), G.992.4 (G.lite), C.992.4 (G.lite), C.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483/RFC 2684) (bridge & nuter modes) Service Classes of ATM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate with real time (VBR-rt); Variable Bit Rate (UBR); Constant Bit Rate	ENVIRONMENT SPECIFICATIONS	
Operating Humidity 10% - 90% non-condensing Storage Humidity 5% - 95% non-condensing Modulation T1.413.G. 992.1 (G. dmt), G. 992.2 (G. lite). ADSL 2.ADSL2+. Support Annex AH/JL/M Modulation T1.413.G. 992.1 (G. dmt), G. 992.2 (G. lite). ADSL 2.ADSL2+. Support Annex AH/JL/M Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled). Max upstream velocity 3.5Mbps(with Annex M enabled). Transfering Distance Max 6 kilometers Negotiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G. hs) Interoperability G.992.3 (G. dmt. bis), G.992.2 (G. lite, bis), G. 992.2 (G. lite). ATM SPECIFICATIONS UNI 3.14.0, ATM Adaptation Layer Type 5-AALS: Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bring & nuter modes) Service Classes of ATM Unspecified Bit Rate (UBR): Constant Bit Rate (CBR): Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate without real time(VBR-rt) Virtual Circuits GMM Snooping (v1v2), IGMP multicast VLNN Port VLAN; Tag VLAN IP Multicast IGMP Snooping (v1v2), IGMP multicast VLNN Port vLAN; Tag VLAN SwittCHING SPECIFICATIONS Beckup settings: Load constructins, Access control: Remote administration configuration; ADSL conf	Operating Temperature	0°C~40°C(32°F~104°F)
Storage Humidity 5% ~ 95% non-condensing ADSL SPECIFICATIONS Modulation T1.413.G. 992.1 (G.dmt), G.992.2 (G.lite), ADSL2, ADSL2, ADSL2, Support Annex AlU/LM Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled) Transferring Distance Max 6 kilometers For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability Interoperability with DSLAM equipment that uses G. 992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (G.dmt.bis), G.992.4 (G.lite.bis), G.992.5 and G.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AALS; Multiprotocol encepsulation over ATM (RFC 1483 / RFC 2864) (bridge & router modes) Service Classes of ATM UIN 3.1/4.0, ATM Adaptation Layer Type 5-AALS; Multiprotocol encepsulation over ATM (RFC 1483 / RFC 2864) (bridge & router modes) Virtual Circuits & PVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWTCHING SPECIFICATIONS IEEE 802.14 transparent learning bridging IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN For VLAN: Tag VLAN Swttching Features IEEE 802.14 transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANACEMENT SPECIFICATIONS	Storage Temperature	-40°C~70°C(-40°F~158°F)
ADSL SPECIFICATIONS Modulation T1.413.G. 992.1 (G.dmt), G.992.2 (G.lite), ADSL2, ADSL2+, Support Annex All/JLM Data Velocity Max downstream velocity 24Mbps/with ADSL2+ anabled), Max upstream velocity 3.5Mbps/with Annex M enabled) Transferring Distance Max 6 kilometers Negoliation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability G.992.3 (G.dmt.bis), G.992.4 (G.lite.bis), G.992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (G.DMT), G.992.3 (G.DMT), S.992.4 (G.Lite), G.992.4 (G.Lite), G.992.4 (G.Lite), G.992.3 (G.DMT), S.992.4 (G.Lite), G.992.4 (G.Lite),	Operating Humidity	10% ~ 90% non-condensing
Modulation T1.413.G. 992.1 (G.dmt),G.992.2 (G.lite),ADSL2,ADSL2+, Support Annex AlJULM Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled) Transferring Distance Max 6 kilometers Megdiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability Interoperability with DSLAM equipment that uses G. 992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (G.dmt bis), G.992.4 (G.lite, bis), G.992.5 and G.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.14.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM UNIS 14.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Virtual Circuits BPVCs OAM QAM F4/F5 Loop-back, AIS and RDI OAM cells Switching Features IEEE 802.1 d1 transparent learning bridging IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Teg VLAN Switching Features IEEE 802.1 d1 transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Administrative Tools Administrative Tool	Storage Humidity	5% ~ 95% non-condensing
Data Velocity Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled) Transferring Distance Max 6 kilometers Negotiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability G.992.3(G.dmt.bis), G.992.4 (G.lite.bis), G.992.5 and G.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM UNI specified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt) Virtual Circuits BPVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SwiTCHING SPECIFICATIONS IEEE E02.1 dt transparent learning bridging VLAN Port VLAN; Tag VLAN Swithing Features IEEE E02.1 dt transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANACEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; ATM concetivity; PACKET Internetwork Graper (PING) Administrative Tools Backup settings; Update settings; Restore factory default settings; LAN configuration; AUsdagnostics	ADSL SPECIFICATIONS	
Transferring Distance Max 6 kilometers Negotiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.Ns) Interoperability Interoperability G.992.3(G.dmb.bis), G.992.4(G.lite.bis), G.992.5 and G.994.1 (G.Ns) ATM SPECIFICATIONS Protocols ATM Protocols ATM Service Classes of ATM UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Vartual Circuits BPVCs OAM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-nt) Variable Circuits BPVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN, Tag VLAN Switching Features IEEE 802.1d transparent learning bridging Quality of Service (GoS) IP Type of service[ToS], 802.1p MAAAGEMENT SPECIFICATIONS Backup settings: Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control, Remote administration configuration; AUddiagnostics Administrative Tools	Modulation	T1.413,G. 992.1 (G.dmt),G.992.2 (G.lite),ADSL2,ADSL2+, Support Annex A/I/J/L/M
Negotiation Process For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs) Interoperability Interoperability with DSLAM equipment that uses G. 992.1 (G.DMT), G.992.2 (G.Lite), G.992.3 (G.dmt.bis), G.992.4 (G.lite.bis), G.992.5 and G.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2644) (bridge & router modes) Service Classes of ATM UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2644) (bridge & router modes) Service Classes of ATM UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2644) (bridge & router modes) Service Classes of ATM UNI S.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2644) (bridge & router modes) Victual Circuits BPVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicast IVAN Port VLAN; Tag VLAN Switching Features IEEE 802.1 d transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; ACcess control	Data Velocity	Max downstream velocity 24Mbps(with ADSL2+ enabled), Max upstream velocity 3.5Mbps(with Annex M enabled)
Interoperability Interoperability Interoperability Interoperability with DSLAM equipment that uses G. 992.1 (G.DMT), G.992.2 (G.Lile), G.992.3 (G.dmt.bis), G.992.4 (G.lile, bis), G.992.5 and G.994.1 (G.hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encepsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt) Virtual Circuits BPVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicest VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1 dt ransparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; Autodiagnostics Diagnostic Tools LAN connectivity; CPE Sincronization; Access control, Remote administration configuration; Autodiagnostics Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; PACKET Internetwork Groper (PING) Administration Remotely administrable by TELNET Compabibility with Management Agents SMMP 11/v2, CPE WAN Manage	Transferring Distance	Max 6 kilometers
Interoperability G. 992.3 (G. dmt. bis), G. 992.4 (G. lite. bis), G. 992.5 and G. 994.1 (G. hs) ATM SPECIFICATIONS UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-nt); Variable Bit Rate without real time(VBR-nt) Virtual Circuits 8PVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SwitchING SPECIFICATIONS IEEE 802.1 dt transparent tearning bridging IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1 dt transparent tearning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1 p Administrative Tools Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ADSL configuration; ADSL configuration; ALD calignostics Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP; TELNET Remote Administration Remotely administration and operation software (Imware) ugradeable locally by web, TFTP, FTP Software Upgrade Administration and	Negotiation Process	For speed, bandwidth and latency, synchronicity and ADSL activation based on ITU-T G.994.1 (G.hs)
ATM SPECIFICATIONS Protocols ATM UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM Unitud Circuits BPVCs OAM SWITCHING SPECIFICATIONS IP Multicast IP Multicast IP Any Class IP Type of service (ToS), IDP MANAGEMENT SPECIFICATIONS Administrative Tools Backup settings: Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ALN connectivity; CPE Sincronization; ATM conectivity; IP Conectivity; PACKET Internetwork Groper (PING) Administrative Tools LAN connectivity; CPE Sincronization; ATM conectivity; IP Conectivity; PACKET Internetwork Groper (PING) Administration Remote	Interoperability	Interoperability with DSLAM equipment that uses G. 992.1 (G.DMT), G.992.2 (G.Lite),
Protocols ATM UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 / RFC 2684) (bridge & router modes) Service Classes of ATM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt) Virtual Circuits 0PVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1 d transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; Autodiagnostics Diagnostic Tools LAN connectivity; OPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SMMP v1/v2, CPE WAN Management Protocol (TR-069) Remote Administration Remoley administratioe not operation software (firmware) upgradeable locally by web, TFTP, FTP Security Management IP filtering, MAC filtering, Application Filter, VAL Filter, Packet Filter	interoperating	G.992.3(G.dmt.bis),G.992.4(G.lite.bis), G.992.5 and G.994.1(G.hs)
Protocols ATM RFC 2684) (bridge & router modes) Service Classes of ATM Unspecified Bit Rate (UBR); Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate With Variable Bit Rate With Variable Bit Rate Varine Protocol (TR-069)	ATM SPECIFICATIONS	
RFC 2684) (bridge & router modes) Service Classes of ATM Unspecified Bit Rate (UBR): Constant Bit Rate (CBR); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate with real time(VBR-rt); Variable Bit Rate without real time(VBR-rt); Variable Bit Rate With Rate Bit Bit Rate With Rate Bit Bit Rate Variable Bit Rate With Rate Bit Bit Rate Variable Bit Rate With Rate Bit Bit Rate Variable Bit Rate Varis Rate Rate Ministration; Anto Rate Rate Rate Rate Rate Rate Ra	Protocols ATM	UNI 3.1/4.0, ATM Adaptation Layer Type 5-AAL5; Multiprotocol encapsulation over ATM (RFC 1483 /
Service Classes of ATM Bit Rate without real time(VBR-nrt) Virtual Circuits BPVCs OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicast IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1d transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ADSL configuration; ADSL configuration; ADSL configuration; ACRESs control; Remote administration configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; Autodiagnostics Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SNIMP v1/v2, CPE WAN Management Protocol (TR-069) Remotel Administration Remotely administrable by TELNET, HTTP, SNIMP, CPE WAN Management Protocol (TR-069) Software Upgrade Administrable by TELNET, HTTP, SNIMP, CPE WAN Management Protocol (TR-069)		RFC 2684) (bridge & router modes)
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OAM OAM F4/F5 Loop-back, AIS and RDI OAM cells SWITCHING SPECIFICATIONS IGMP Snooping (v1/v2), IGMP multicast IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1 dt ransparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; AUX connectivity; CPE Sincronization; ATM conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SIMP v1/v2, CPE WAN Management Protocol (TR-069) Remote Administration Remotely administrable by TELNET, HTTP;SIMP;CPE WAN Management Protocol (TR-069) Software Upgrade Administration and operation software (firmware) upgradeable locally by web, TFTP, FTP Security Management IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT. ROUTING SPECIFICATIONS PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) Pret Encepsulation PAP, CHAP; MS-CHAP		Bit Rate without real time(VBR-nrt)
SWITCHING SPECIFICATIONS IP Multicast IGMP Snooping (v1/v2), IGMP multicast VLAN Port VLAN; Tag VLAN Switching Features IEEE 802.1d transparent learning bridging Quality of Service (QoS) IP Type of service(ToS), 802.1p MANAGEMENT SPECIFICATIONS Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; Autodiagnostics Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SNMP v1/v2, CPE WAN Management Protocol (TR-069) Remote Administration Remotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069) Software Upgrade Administration and operation software (firmware) upgradeable locally by web, TFTP, FTP Sectific SPP PP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) Protocols PPP PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Prot	Virtual Circuits	8PVCs
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MANAGEMENT SPECIFICATIONS Administrative Tools Backup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; Autodiagnostics Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SNMP v1/v2, CPE WAN Management Protocol (TR-069) Remote Administration Remotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069) Software Upgrade Administration and operation software (firmware) upgradeable locally by web, TFTP, FTP Security Management IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT. ROUTING SPECIFICATIONS PAP Over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Switching Features	IEEE 802.1d transparent learning bridging
Administrative ToolsBackup settings; Update settings; Restore factory default settings; LAN configuration; ADSL configuration; ATM parameters configuration; Access control; Remote administration configuration; AutodiagnosticsDiagnostic ToolsLAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING)Access ControlServices, IP address, PasswordManagement InterfaceHTTP, TELNETCompatibility with Management AgentsSNMP v1/v2, CPE WAN Management Protocol (TR-069)Remote AdministrationRemotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069)Software UpgradeAdministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG		IP Type of service(ToS), 802.1p
Administrative ToolsATM parameters configuration; Access control; Remote administration configuration; AutodiagnosticsDiagnostic ToolsLAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING)Access ControlServices, IP address, PasswordManagement InterfaceHTTP, TELNETCompatibility with Management AgentsSNMP v1/v2, CPE WAN Management Protocol (TR-069)Remote AdministrationRemotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069)Software UpgradeAddministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol - RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	MANAGEMENT SPECIFICATIONS	
Diagnostic Tools LAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING) Access Control Services, IP address, Password Management Interface HTTP, TELNET Compatibility with Management Agents SNMP v1/v2, CPE WAN Management Protocol (TR-069) Remote Administration Remotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069) Software Upgrade Administration and operation software (firmware) upgradeable locally by web, TFTP, FTP Security Management IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT. ROUTING SPECIFICATIONS PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol- RIP Version 2(RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Administrative Tools	
Access ControlServices, IP address, PasswordManagement InterfaceHTTP, TELNETCompatibility with Management AgentsSNMP v1/v2, CPE WAN Management Protocol (TR-069)Remote AdministrationRemotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069)Software UpgradeAdministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG		ATM parameters configuration; Access control; Remote administration configuration; Autodiagnostics
Management InterfaceHTTP, TELNETCompatibility with Management AgentsSNMP v1/v2,CPE WAN Management Protocol (TR-069)Remote AdministrationRemotely administrable by TELNET, HTTP,SNMP,CPE WAN Management Protocol (TR-069)Software UpgradeAdministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Diagnostic Tools	LAN connectivity; CPE Sincronization; ATM conectivity; IP conectivity; PACKET Internetwork Groper (PING)
Compatibility with Management AgentsSNMP v1/v2, CPE WAN Management Protocol (TR-069)Remote AdministrationRemotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069)Software UpgradeAdministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSProtocols PPPPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Access Control	Services, IP address, Password
Remote AdministrationRemotely administrable by TELNET, HTTP, SNMP, CPE WAN Management Protocol (TR-069)Software UpgradeAdministration and operation software (firmware) upgradeable locally by web, TFTP, FTPSecurity ManagementIP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.ROUTING SPECIFICATIONSProtocols PPPPPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516)PPP EncapsulationPAP, CHAP, MS-CHAPClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Management Interface	HTTP, TELNET
Software Upgrade Administration and operation software (firmware) upgradeable locally by web, TFTP, FTP Security Management IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT. ROUTING SPECIFICATIONS PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	Compatibility with Management Agents	SNMP v1/v2,CPE WAN Management Protocol (TR-069)
Security Management IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT. ROUTING SPECIFICATIONS PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Protocols Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Protocol ARP (RFC 826); SIP, H323 ALG	Remote Administration	Remotely administrable by TELNET, HTTP,SNMP,CPE WAN Management Protocol (TR-069)
ROUTING SPECIFICATIONS Protocols PPP PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Routing Protocols Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol - RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG		
Protocols PPP PPP over ATM (RFC 2364); PPP over Ethernet (RFC 2516) PPP Encapsulation PAP, CHAP, MS-CHAP Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Protocols Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG		IP filtering, MAC filtering, Application Filter, URL Filter, Packet Filter, Stateful Packet Inspection (SPI), NAT.
PPP Encapsulation PAP, CHAP, MS-CHAP Routing Protocols Classical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	ROUTING SPECIFICATIONS	
Routing ProtocolsClassical IP and ARP over ATM (RFC 1577/2225); Routing Information Protocol- RIP Version 1(RFC 1058); Routing Information Protocol - RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG		
Routing Protocols Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution Protocol ARP (RFC 826); SIP, H323 ALG	PPP Encapsulation	
Protocol ARP (RFC 826); SIP, H323 ALG	Routing Protocols	
		Routing Information Protocol -RIP Version 2 (RFC 1723); Static routing; IP; TCP; UDP;Address Resolution
Network Address Port Translation (NAPT): Network Address Translation (NAT)/DEC 2020): Demain Name		
		Network Address Port Translation (NAPT); Network Address Translation (NAT)(RFC 3022); Domain Name
Addressing Server Proxy (DNS); Dynamic Domain Name Server (DDNS);Dynamic Host Configuration Protocol DHCP-		
Server (RFC 2131).		
NAT Supporting UPnP, Virtual Server, DMZ, VPN Pass Through (IPSec/PPTP/L2TP Pass-through)	NAT Supporting	UPnP, Virtual Server, DMZ, VPN Pass Through (IPSec/PPTP/L2TP Pass-through)

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