

WAN / STANDARDS
PPPoE and IPoE
802.1q trunking
802.1p traffic classification
DHCP : Option : 60
DHCP : Option : 43,66,67
DHCP : Option : 3,6,51,58,59,121
ADSL(Annex A):ANSI T1.413-1998
ADSL(Annex A):ITU-T G992.1 (G.dmt)
ADSL2(Annex A):ITU-T G992.3
ADSL2 ITU-T G992.3 Annex L (G.dmt.bis)
ADSL2+ ITU-T G992.5 ANNEXM (extended upstream bandwidth)
VDSL:ITU-T G993.1
VDSL2:ITU-T G993.2
VDSL2: ITU-T G.993.5 (Vectoring)
VDSL2: ITU-T G.993.2 (2015) Amd.1 Annex Q (profile 35b)
DSL Line : Support 8b, 12a, 17a band profiles
DSL Line : Support 30a band profile
DSL Line : Support VDSL, Annex A, 997, 998 (998-M2X-A, 998ADE17-M2X-B) band plan
DSL Line : Support Upstream power backoff (UPBO)
DSL Line : Support Downstream power backoff (DPBO)
Impulse noise protection (INP) and extended INP
Seamless Rate Adaptation (SRA)
SNR indicator
ATM mode
PTM mode
Trellis coding
Bitswapping
DNS Conditional Forwarding : Forward to appropriate WAN connection DNS Servers.
PPP PAP/CHAP Authentication, PAP is the minimum requirement
QoS : Priority Queue for Voice Traffic (all interfaces)
QoS : CBWFQ for IP Traffic QoS (all interfaces)
QoS : Marking, Shaping, Policing of traffic (all interfaces)
DNS SRV records support (RFC 2782) & DNS A-record lookup support

VOICE / STANDARDS
RFC 3261, SIP: Session Initiation Protocol
RFC 2327, SDP: Session Description Protocol
RFC 3264, An Offer/Answer Model with the Session Description Protocol (SDP)
RFC 3550, RTP: A Transport Protocol for Real-Time Applications
RFC 3263, Session Initiation Protocol (SIP): Locating SIP Servers (Primary/Secondary (two) outbound SIP proxies should be supported at minimum)
RFC 2782, A DNS RR for specifying the location of services
Support of local media
Dial plan support for overdecadic digits (e.g. Features Access Codes)
SIP ALG
RFC2833/4733 RTP Payload for DTMF Digits, Telephony Tones, and Telephony Signals
Reliable Provisional Responses Support (RFC3262)
Minimum codec list support: g711 A/u-law, g729, T38

IPTV / STANDARDS
IPoE
Multicast