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Customer Premises Equipment (CPE) – Technical Specification Document

This document outlines the technical specifications for the Customer Premises Equipment (CPE) to be deployed for broadband connectivity. The device is intended to support both wired and wireless connectivity with dual-stack IP (IPv4/IPv6) support and high-speed interfaces.



Des questions ? Contactez
notre Équipe DIGI Care au
0800/41.041

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1. WAN interface requirements

1.1. Connexion Type

- PPPoE (Point-to-Point Protocol over Ethernet)

1.2. MTU Configuration

- MTU size: 1500 bytes

1.3. IP Protocol Support

- Dual-stack operation: IPv4 and IPv6

1.4. IPv6 Requirements

- Support for IPv6 link-local network discovery
- DHCPv6 for:
 - Prefix delegation
 - DNSv6 configuration



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2. LAN interface requirements

2.1 IP Services

- Network Address Translation (NAT) for IPv4
- DHCP server for automatic IPv4 address allocation
- DHCPv6 server for IPv6 address assignment and configuration
- IPv6 Router Advertisement (RA) support

2.2 Physical Interface:

- 1GbE/10GbE port for WAN and LAN connectivity(based on service type)



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3. Wireless Interface Requirements

3.1 Standards Support

- Minimum: IEEE 802.11ac (Wi-Fi 5)
- Preferred: IEEE 802.11ax (Wi-Fi 6)

3.2 Wireless Features

- Dual-band operation (2.4 GHz and 5 GHz)
- WPA3 support preferred



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