The AD2X-2020 a true Gigabit, dual-band XPON Optical network Terminal designed to meet the requirement of the broadband access network. The 802.11ac standard enables gigabit speeds on many newer devices. And the widely supported 802.11b/g/n standard simultaneously connects other devices at lower speeds.

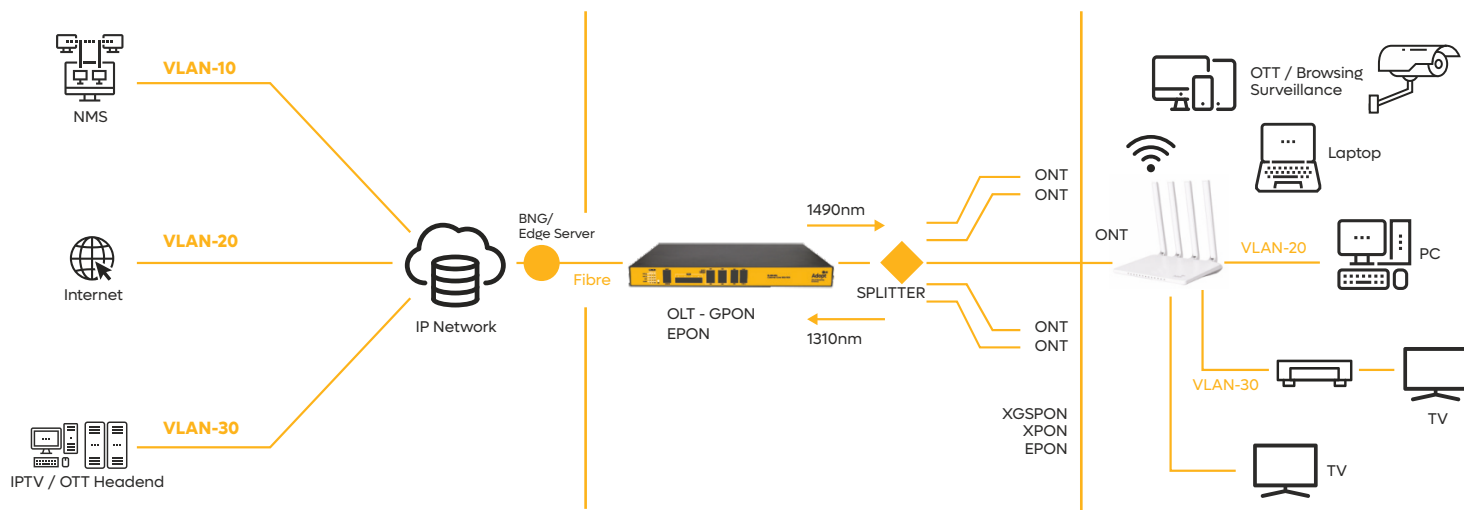It delivers perfect solution for FTTH/FTTC/FTTO connectivity, to provide data, video and services to the end users.

AD2X-2020, a high performance device, provides the best wireless connection in both 2.4GHz@300Mbps and 5GHz@867Mbps frequency bands. AD2X-2020 has a high reliability and provides quality of service guarantee, easy management, flexible expansion and networking.

It's fully meet the ITU-T technical standards and have good compatibility with third party manufacturers OLT.

## MAIN FEATURES

• Dual mode (Can access EPON/GPON OLTs).

• Supports 802.11ac, Compatible with 802.11 b/g/n/ac products.

• Dual band -for combined wireless speeds of up to 1200Mbps at 2.4GHz and 5GHz band concurrently.

• Support downstream 2.5Gbps and upstream to 1.25Gbps with transmission distance to 20Km.

• Fiber access and gigabit port provide incredibly fast transfer speeds.

• Supports OMCI (ONT Management Control Interface) remote management.

• TDM inner transmission, support Native TDM type and CES over GEM.

# ADOPT ONT -Triple Play (GE Ports + Wifi)



## SPECIFICATION

### GENERAL

| | |
|---|---|
| **GPON Standards** | **ITU-T G.984** |
| **Distance** | **20Km Max** |
| **Data Rates** | **Upstream: 1.25Gbps** |
| | **Downstream: 2.5Gbps** |
| **Wireless Standards** | **IEEE 802.11 a/n/ac,5GHz** |
| | **IEEE 802.11 b/g/n,2.4GHz** |
| **Signal Rate** | **5GHz: Up to 867Mbps, 2.4GHz:Up to 300Mbps** |
| **Operation Frequency** | **2.4GHz and 5GHz** |
| **Transmit Power** | **5GHz** |
| | **11a 6Mbps : -94.5dBm / 11a 54Mbps: -77dBm** |
| | **11ac VHT20: -65.5dBm / 11ac VHT40: -70.5dBm** |
| | **11ac VHT80: -62.5dBm / 2.4GHz** |
| | **11g 54M: -67dBm / 11n HT20: -64dBm** |
| | **11n HT40: -62dBm** |
| **Recieve Sensitivity** | **5G** |
| | **21.5dBm@6M 11a / 19dBm@54M 11a** |
| | **17dBm@MCS8 VHT20 11ac / 17dBm@MCS9 VHT40 11ac** |
| | **17dBm@MCS9 VHT80 11ac** |
| | **2.4G** |
| | **16dbm@MCS7 HT40 / 16dbm@MCS7 HT20** |
| | **17dbm@OFDM 54M / 19dbm@CCK 11M** |

## SPECIFICATION

### GENERAL

| | |
|---|---|
| **PON TX Power** | 1~3dBm (1310nm) |
| **PON RX sensitivity** | <-28dBm (1490nm) |
| **Wireless Security** | WEP, WPA / WPA2, WPA-PSK/ WPA2-PSK encryption |
| **Power** | < 8W |

### HARDWARE

| | |
|---|---|
| **Interfaces** | 1xSC/PC or 1xSC/APC (optional) 2x 10/100/1000Mbps LAN Ports |
| **Buttons** | Power ON/OFF Button, WPS/Reset Button, WiFi Button |
| **Power Supply** | DC 12V 1A |
| **Antenna** | 4*6dBi external antenna |
| **Dimensions (W X DX H)** | 204*127*33mm (length*width*height) |

### ENVIRONMENT

| | |
|---|---|
| **Operating Temperature** | 0°C~50°C (32°F~l22°F) |
| **Storage Temperature** | -40°C~70°C (-40°F~158°F) |
| **Operating Humidity** | 10%~90%, non-condensing |
| **Storage Humidity** | 5%~90% non-condensing |
| **Certifications** | TEC |

### SOFTWARE

| | |
|---|---|
| **WAN Type** | Dynamic IP/Static IP/PPPoE |
| **DHCP** | Server, Client, DHCP Client List, Address Reservation |
| **Quality of Service** | WMM, Bandwidth Control |
| **Port Forwarding** | Virtual Server, Port Triggering, UPnP, DMZ |
| **VLAN** | 802.1Q tag VLAN, VLAN transparent mode/VLAN translation mode/VLAN trunk mode |
| **Access Control** | Parental Control, Local Management Control, Host List, Access Schedule, Rule Management |
| **Firewall Security** | DoS, SPI Firewall, IP Address Filter/MAC Address Filter/ Domain Filter IP and MAC Address Binding |

# SPECIFICATION

## SOFTWARE

| Management | Access Control, Local Management, Remote Management |
| --- | --- |
| Internet Protocol | IPv4, IPv6 |

## PACKAGE CONTENTS

| Contents | 1 x XPON ONT |
| --- | --- |
| | 1 x Quick Installation Guide |
| | 1 x Power Adapter |

At Adopt, we are helping create the worlds most advanced networks through AI, wired & wireless networks, connected devices, Cloud & Data Analytics.

Our people and solutions are at the cutting edge of innovation, helping solve todays problems and anticipating future needs.

Adopt is created through a synergy between Altius and RAH infotech - bringing together a wealth of experience in their individual domains.

ACF is one of the fastest growing system integrator for Telecom, Broadband and Cable & Broadcast Industry.

RAH Infotech is one of India's leading value added distributor and solutions provider in the Network and Security domain.

Our combined expertise coupled with a young dynamic team allows us to create continuous innovation that is designed, created and manufactured in India for a global marketplace.

Adopt solutions increase user experience, optimise operations and increase profitability by leveraging existing infrastructure and connecting to AI based Cloud Controller over EDGE. Our solutions ensure that you are always ahead of the curve