10Gbps Fiber WebSmart Multi Gigabit Switch
12-Port Multi Giga 12 x 10G/2.5G/1G SFP/SFP+
WEB-10XGF12

airlive®

| 2.5G/10G or 1G/10G Auto-adaptive | Web Managed | QoS | Multi-Gigabit Auto-negotiation | Surge protection |
| All Ports up to 10G, SFP+ | Bandwidth Control | VLAN | Loop Protection | |

Overview

### Painless Upgrading your Network Connection to 10G Super High speed Web Management Switch

The AirLive Multi-Giga switch, WEB-10XGF12, is a Web Managed switch, which supports 12 SFP+ ports for delivering up to 10Gbps extra high-speed connection on fiber optic. Each port can support 1G/10G or 2.5G/10G to connective devices (depending on the SFP module used (not included)). Supports WEB Management function and is easy to manage and maintain. The easy to operate WEB-10XGF12 has several functions like VLAN setting for a more secure connection. QoS to have more control of the bandwidth and many more like, IGMP, Loop Prevention, Port-Base Mirroring, Port Isolation, Bandwidth Control, Security (MAC Address /table /search / static MAC; Storm control and more. With the 10G Multi-Giga switch, you can connect to a variety of 10Gb-enabled devices, such as SWITCH | NAS | NVR | PC | Server, for enjoying faster experience and handle bandwidth-hungry applications. Designed in a slim sized solid housing, it's an affordable, space-saving solution suitable to SMB and Home network applications.

1G/2.5G/10G SFP+ Port

Features and Specifications

- 12 x 1G/10G or 2.5G/10G SFP/SFP+ ports
- Web Smart Management
- QoS: Priority Management
- VLAN: enhanced security and performance
- Loopback Detection
- All ports at Multi Gigabit high speed, auto-negotiation

- Providing satisfied bandwidth for various network devices, such as Backbone for switch network, Multi-media, NAS, Server system
- Super Fast 10Gbps SFP+
- Compact size for SMB and Home Network Connectivity
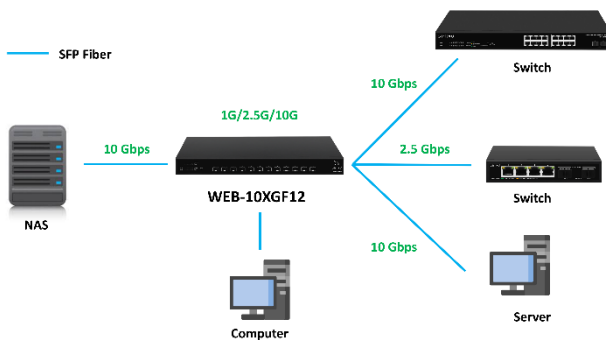
Built for High-Speed connectivity

1G/2.5G/10G SFP+ Multi Gigabit perfect for various applications

With the AirLive 10G Multi-Giga switch WEB-10XGF12, you can connect to a variety of 10Gb enabled devices, such as NAS | NVR | PC | Server, the SFP+ ports can work at 1G/10G or 2.5G/10G depending on the module used (module not included), for enjoying faster experience and handle bandwidth-hungry applications.

VLAN for enhanced network security

The VLAN 802.1Q VLAN tagging settings can be used to separate traffic within a business such as isolating resources between network administrators and general users or between employees and public guest users. With the help of VLAN interface, switches can communicate with other network layer devices.
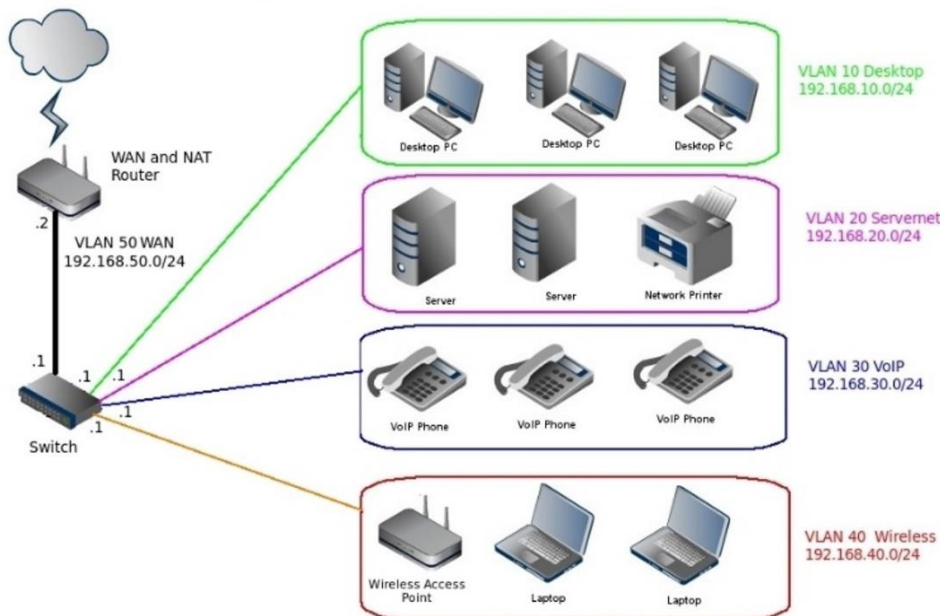

QoS for enhanced traffic control

QoS (Quality of service) is the ability to provide different priority to different applications, users, or video/voice/data flows, or to guarantee a stable level of performance to each data flow. This can be with Port-based Priority or Priority to queue.

IGMP Snooping Multicast

Multicast protocols is compliant with IGMPv1/v2/v3 and supports abundant multicast features such as IGMP v2/v3 snooping and fast leave. By analyzing the IGMP messages received, L2 devices establish a mapping between ports and MAC multicast addresses and forward the multicast data accordingly.
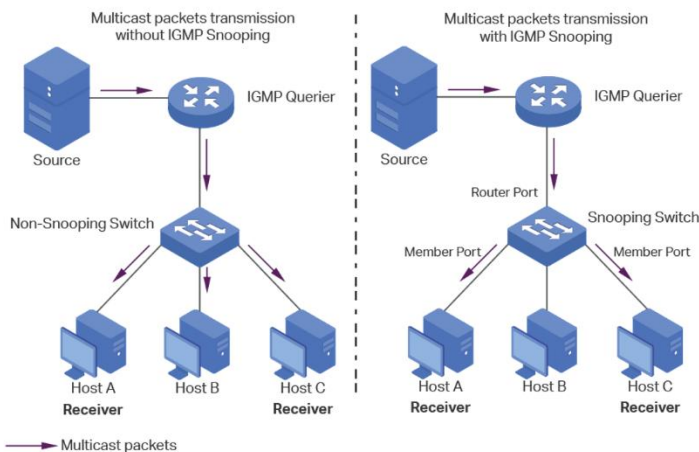
High Video Streaming

Moreover, higher bandwidth improves the playback quality of 4K/8K videos, prevents lag for Gaming, smooths speed when download or upload large data, increases data transfer speed when doing backup to a NAS drive.

Specification

Model	AirLive WEB-10XGF12

Hardware

- **Device Interface:**
  12 x 1G/10G or 2.5G/10G SFP/SFP+ (depends on setting)
  12-port totally Auto MDI/MDIX
- **Standard**
  IEEE802.3 Ethernet Media Access Control (MAC) Protocol
  IEEE802.3bz 2.5G/5G Ethernet standard
  IEEE 802.3z 1000BASE-X Gigabit Ethernet (optical fiber)
  IEEE 802.3ae 10G Ethernet (optical fiber)
  IEEE802.3x Flow Control and Back Pressure
  IEEE 802.3ad port trunk with LACP
  IEEE 802.1D Spanning Tree Protocol
  IEEE 802.1w Rapid Spanning Tree Protocol
  IEEE 802.1p Class of Service
  IEEE 802.1Q VLAN tagging
  IEEE 802.3az (Efficient and Energy saving Ethernet)
- **Surge Protection**:
  Support Electrostatic ESD: Air 8KV, Contact 6KV (Class B)
- **LED Indicators**:
  PWR (power supply), SYS (System), 10G LED, Link/ACT LED
- **Mechanical**
  Solid Metal Housing, Desktop

Switch Architecture | Performance

- **Switching architecture: Store and Forward**
  Switch Capacity: Back-plan up to 240Gbps
  Packet Forwarding Rate; 178.56Mpps
  Packet Buffer: 12Mbit
  MAC Address: 32K
  VLAN: VLAN range 1-4094, with a maximum active VLAN of 4K
  Jumbo Frame: 10K
  Transfer mode: Store and Forward
  MTBF:100000 hour

Web Management Software Function L2

- **Port Setting:**
  Port Switch Configuration, Port Description Configuration, Port Speed configuration, Port Duplex Configuration, Port Flow Control Configuration, Jumbo Frame
- **Link Aggregation:**
  Support load balance policy based on MAC and IP-MAC Static and Dynamic Group, Support LACP up to 8 groups
- **Storm Control:**
  Broadcast suppression, Unknown Multicast, Unknown Unicast
- **Port Mirroring:**
  One to one monitor, Many to one monitor, Ingress/Egress/Both, Up to 4 session groups
- **Port Security:**
  MAC Address Constraints, Protect/Restrict/Shutdown

- **Port Isolation:**
  Supported
- **Port Rate-limit:**
  Supported
- **VLAN:**
  Access/Trunk/Hybrid, VLAN Tunnel (Q-in-Q Tunnel), VLAN range 1-4094, maximum active VLAN is 4K
- **MAC Address:**
  Filtering MAC Address, Static MAC address,
- **LLDP:**
  Support LLDP, LLDP MED
- **Spanning Tree Protocol:**
  STP/RSTP, BPDU Filter, BPDU Guard, Edge Port
- **Multicast:**
  IGMP Snooping, Router Port, Static IGMP Join, IGMP V1/V2/V3
- **QoS:**
  Traffic classification, Supporting SP and WRR scheduling, Port Priority, 802.1P Priority, IP DSCP Priority, Priority Remark, Supports up to 8 queues per port
- **ERPS:**
  Support Main Ring
- **Loopback Detection:**
  Supported
- **Access Protocol:**
  HTTP, Session Timeout
- **Security:**
  DHCP Snooping
- **Diagnostics:**
  Supported
- **Ping:**
  Supported

Management

- **Manager Access:**
  HTTP, SNMP
- **Manager IP:**
  Static Address, Manager VLAN, DNS, DHCP Client
- **SNMP:**
  V1/V2C, Community Name, Trap host
- **SNMP MIB:**
  RFC 1213 MIB-II, RFC 1643 Ethernet MIB, RFC 2863 Interface MIB
- **User Management:**
  Supported
- **Firmware Management:**
  Firmware Upgrade
- **Configuration Management:**
  Upload/Backup Configuration
- **Save, Restart**
- **Factory Defaults**

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Specification

Model	AirLive WEB-10XGF12

- **Fiber Medium:**
  1000BASE-SX: 62.5μm MMF (Multimode optical fiber)
  (Minimum range: 2m～275m) or 50μm MMF
  1000BASE-LX: 62.5μm/50μm MMF
  (Minimum range: 2m～550m) or 10μm SMF (Minimum range: 2m～5km)
  2500BASE-X: G.652D SMF (Single-mode optical fiber)
  (Minimum range: 2m～500m or 2m～5Km)
  10GBASE-SR: OM1/OM2/OM3 or above MMF
  (Operating range: 2m～300m)
  10GBASE-LR: IEC and B1.1 and B1.3 SMF
  (Minimum range: 2m～10km)

Power

- **Power Input:** AC 100~240V 50/60HZ (Internal DC 12V/8A)
- **Power Usages Max**: 29.6W

Environment

- **Operating Temperature:** 0°C to +40°C
- **Storage Temperature:** -40°C to +70°C
- **Working Humidity**: 10%~90%, non-condensing
- **Storage Humidity**: 5%~95%, non-condensing

Standard package of Switch

- **Product size:**
  44.0 x 20.5 x 4.4 cm(L*W*H)
- **Package size:**
  50.0 x 29.0 x 8.5 cm(L*W*H)
- **Package Weight:**
  N.W: 2.5kg; G.W: 3.12kg
- **Package content**:
  1 x Switch, 1 x Power cord, 1 x QIG.

Standard carton package

- **Quantity:** 5pcs / 1 carton
- **Dimensions**
  52.0 x 44.5 x 31.0cm (L*W*H)
- **Weight**
  16.6kg (G.W)

Ordering Information

- **Model:**
  WEB-10XGF12
- **Name:**
  12-port 10Gbps WebSmart Multi Gigabit Switch, incl. 12 x 10G SFP+ ports, Plug and Play, Auto-Negotiation

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