The **VIP-NET-0448-1G** is a Gigabit network switch with (48) 1000Base-X SFP fiber and (4) 1000Base-T ports designed for use with PureStream IP Video solutions to provide simple and flexible network management. The **VIP-NET-4804-1G** combines many important features for reliable A/V over IP distribution including, such as IGMP, Jumbo Frame, VLAN, as well as the ability to link multiple switches.

### Key Features

- Purpose-built for high reliability and performance
- Various port types and flexible port expansion
- 24 or 48 port CAT or Fiber models
- Support for L2+ management, QoS with ARP learning, DHCP snooping, VLAN, IGMP, and Jumbo Frames
- Wirespeed replication of multicast packets
- SNMP, RMON, Web NMS, and Telnet
- Optional 10G sub-cards for linking multiple switches together

### GENERAL TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>FIXED PORT</th>
<th>48*1000 Base-X SFP ports</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4*10/100/1000 Base-T combo ports</td>
</tr>
<tr>
<td></td>
<td>1*Console port</td>
</tr>
<tr>
<td>EXTENDED SLOT</td>
<td>2*10G extended slot (Rear panel)</td>
</tr>
<tr>
<td>10G SUBCARD</td>
<td>1*10G SFP+ subcard</td>
</tr>
<tr>
<td></td>
<td>2*10G SFP+ subcard</td>
</tr>
<tr>
<td>SWITCHING CAPACITY</td>
<td>280Gbps</td>
</tr>
<tr>
<td>PACKET FORWARDING CAPACITY</td>
<td>131Mpps</td>
</tr>
<tr>
<td>POWER CONSUMPTION</td>
<td>&lt;60W</td>
</tr>
<tr>
<td>INPUT VOLTAGE</td>
<td>AC:110<del>240V/50</del>60Hz</td>
</tr>
<tr>
<td>OPERATING ENVIRONMENT</td>
<td>Operating temperature: 0°C~50°C</td>
</tr>
<tr>
<td></td>
<td>Relative humidity: 5%~95% (non-condensing)</td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td>440(L) x 285(W) x 44.5(H) mm</td>
</tr>
<tr>
<td>WEIGHT</td>
<td>&lt;4Kg</td>
</tr>
</tbody>
</table>
## VIP-NET-0448-1G  Gigabit Network Switch

### SERVICE FEATURE

#### STANDARDS
- IEEE 802.3ad, Link Aggregation
- IEEE 802.3, 10Base-T
- IEEE 802.3u, 100 Base-TX
- IEEE 802.3ab, 1000 Base-T
- IEEE 802.3z, 1000 Base-X
- IEEE 802.3ae, 10Gb/s Ethernet
- IEEE 802.3x, Ethernet flow control
- IEEE 802.1AB-2005, LLDP (Link Layer Discovery Protocol)
- IEEE 802.1d, Spanning Tree Protocol
- IEEE 802.1w, Rapid Spanning Tree Protocol
- IEEE 802.1s, Multiple Spanning Tree Protocol
- IEEE 8021q, VLAN
- IEEE 802.1p, QoS

#### MAC ADDRESS
- 32K MAC addresses
- MAC address learning and aging

#### VLAN
- 4K VLANs
- Port-based VLANs
- VLAN assignment based on MAC addresses, protocols, and IP subnets

#### SPANNING TREE
- STP (Spanning Tree Protocol)
- RSTP (Rapid Spanning Tree Protocol)
- MSTP (Multiple Spanning Tree Protocol)

#### LINK AGGREGATION
- Max 26 aggregation groups, each supports 8 ports
- Static aggregation and dynamic aggregation

#### PORT MIRRORING
- Many-to-one port mirroring

#### RELIABILITY
- ERPS (G.8032)

#### FLOW RATE LIMITATION
- Rate limiting on packets sent and received by an interface

#### IP ROUTING
- Static Routing

#### MULTICAST
- IGMP v1/v2/v3 snooping and IGMP fast leave
- MVR (Multicast VLAN Registration)

#### DHCP
- DHCP Server/Client
- DHCP Snooping
- DHCP Relay

#### SECURITY
- Binding of the IP address, MAC address, interface
- Port isolation
- 802.1x authentication
- AAA authentication, RADIUS authentication
- SSH v2.0
- User privilege management and password protection

#### MANAGEMENT AND MAINTENANCE
- SNMP v1/v2c/v3 and RMON
- Remote configuration and maintenance using Telnet
- Web NMS
- System logs and alarms of different levels