

# Smart Aggregation Switch

- ONS-S2m

*Optigo brings the benefits of Passive Optical LAN to Intelligent Buildings.*

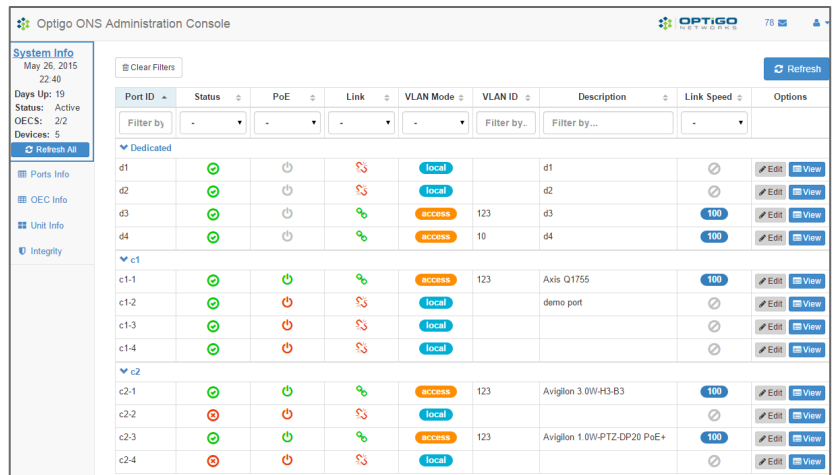


## PRODUCT HIGHLIGHTS

- **Small. Light. Low Power.** – Wall-mountable GEAPON OLT *designed specifically for Intelligent Buildings.*
- **Centrally manage** your entire network with built-in **OneView™ Dashboard** – web-hosted directly on the switch.
- Create a **single virtual switch** with up to 1028 distributed ports.
- Supports all protocols in use for **Security and Building Automation.**
- **Innovative Redundancy** achieved with **auto-switching Active/Standby**

The **Internet of Things** is happening – now. All systems for a modern Intelligent Building are based on IP, and this means totally new networking requirements. Optigo Networks recognizes that the traditional solutions for commercial IP are simply not appropriate for Building Networks.

Optigo' ONS-S2m is a purpose-built OLT, capturing all the benefits of Passive Optical Networking in an appropriate form factor. Its intuitive OneView Interface allows the entire network to be monitored and managed in a single graphical view.



Port ID	Status	PoE	Link	VLAN Mode	VLAN ID	Description	Link Speed	Options
▼ Dedicated								
d1	🟢	🔌	🔗	local		d1	100	Edit View
d2	🟢	🔌	🔗	local		d2	100	Edit View
d3	🟢	🔌	🔗	access	123	d3	100	Edit View
d4	🟢	🔌	🔗	access	10	d4	100	Edit View
▼ c1								
c1-1	🟢	🔌	🔗	access	123	Axis Q1755	100	Edit View
c1-2	🟢	🔌	🔗	local		demo port	100	Edit View
c1-3	🟢	🔌	🔗	local			100	Edit View
c1-4	🟢	🔌	🔗	local			100	Edit View
▼ c2								
c2-1	🟢	🔌	🔗	access	123	Avigilon 3 OW-H3-B3	100	Edit View
c2-2	🔴	🔌	🔗	local			100	Edit View
c2-3	🟢	🔌	🔗	access	123	Avigilon 1 OW-PTZ-DP20 PoE+	100	Edit View
c2-4	🔴	🔌	🔗	local			100	Edit View

## Plug'n'play... but not Plug'n'pray!

Faced with the cost and complexity of typical managed switches, some installers may choose the simplicity of unmanaged switches. This works well, until there is a problem, and troubleshooting is a complete guessing game.

Optigo offers 100% plug'n'play operation directly out-of-the-box. However, rather than the black box of unmanaged switches, OneView offers complete visibility into the system. Further, real-time monitoring and analytics keep you on top of issues when or even before they happen.

### Bandwidth Utilization

#### Downstream



#### Upstream



### Real-time System Bandwidth Display

## PRODUCT SPECIFICATIONS


**ONS-S2m**

Ports & Physical Characteristics	
Target Application	<ul style="list-style-type: none"> <li>Building Automation: HVAC, Lighting, Elevator, Power, Solar</li> <li>Physical Security: Surveillance, Access Control, Alarm</li> </ul>
RJ45 Ports	4 x 10/100/1000 Mbps
EPON Ports	2 x GEAPON, 1 Gbps bidirectional
USB Support	USB 2.0 for Software Upgrade & Diagnostics
LED Status Indicators	Power, Alarm, Link & Redundancy
Power	100-240V AC 9.0 W Maximum Consumption
Operating Environment	0 ~ 50 °C 10-90% humidity (non-condensing)
Dimensions & Weight	8.5" x 8.0" x 1RU 216 x 203 x 44 mm 1.6 lb 725 g
Mounting	Rack or Wall mount with included brackets.
Certifications	UL (E467347), CE, FCC, IEC 60825-1
Networking Features	
EPON Standard	IEEE 802.3ah GEAPON, 2 x 1 Gbps bidirectional, 1310/1490 nm
Fiber Support	Single-strand, Single-mode Optical Fiber 9/270 μm, up to 8 km reach
System Scaling	Connect up to 128 Edge Switches, with up to 1028 ports
EPON Port	SFP insert SC/UPC Female
Optical TX Power	2.5 ~ 7.0 dBm
Optical RX Sensitivity	-20 ~ -6 dBm
Loop Detection	IEEE 802.1w RSTP plus Advanced intra/inter-switch device loop redundancy
MTU	2000 bytes
802.1q VLAN	4K VLANs – Configurable for each port in Trunk, Access, or Local mode
QoS	Weight Round-Robin (WRR) or Strict Priority (SPQ)
Traffic Handling	Ethernet, TCP/IP or UDP/IP, BACNet/Ethernet, BACNet/IP
Advanced Management – with Optigo OneView™	
Optigo OneView™	HTTP/HTTPS server included
SNMP & MIB Support	SNMP v2c: Bridge-MIB, EtherLike-MIB, IF-MIB, RMON-MIB
Bandwidth	Detailed port counters with real-time bandwidth/utilization monitoring
Maintenance	Configuration, Diagnostics, Reset & Software Upgrades from OneView Interface
Port Security	Click-to-Secure – Instant MAC lock-down & disable of all unused ports

