



NC-ONS-Cx Series

Optical Edge Switches



Overview

The NC-ONS-Cx line of Edge Switches allow your network to reach everywhere you need – from a server rack to the smallest of control panels.

Edge Switches connect either through Fiber or Copper connections. All ports from all switches can be monitored and managed through a single graphical view.

Applications

- Airports, shopping malls, campuses, etc.
- High-rise buildings
- Surveillance systems

Features & Benefits

- A versatile selection of Edge Switches. With various sizes and mounting options, there is one for every application.
- Flexible uplink architecture to match the footprint of any smart building.
- Save space and cable costs with efficient and flexible network topologies.
- Centrally manage PoE+ & VLAN settings.
- Supports all protocols in use for security, building automation, and IoT.
- Copper, and Fiber capability

Model Selection

Edge Switches

NC-ONS-C401i	Edge switch, 4 x 10/100, -20C to +60C, No PoE, DIN (Requires NC-ONS-CX-SFP, optional: NC-ACC-PS-24V10W)
NC-ONS-C810p	Edge switch, 8 x 10/100, 0C to +50C, 120W PoE+, 1RU 12" (use with CX-SFP)
NC-ONS-C801pi	Edge Switch 8 PoE+ Ports, Ind. DIN 48V (Requires Min. 1x NC-ONS-CX-SFP, & 1x NC-ACC-PS-48V300W)
NC-ONS-C1601pi	Edge Switch 16 PoE+ Ports, Ind. DIN 48V (Requires Min. 1x NC-ONS-CX-SFP, & 1x NC-ACC-PS-48V300W)
NC-ONS-C2401p	Edge Switch 24 PoE+ Ports AC (Requires Min. 1x NC-ONS-CX-SFP)
NC-ONS-C4801p	Edge Switch 48 PoE+ Ports AC (Requires Min. 1x NC-ONS-CX-SFP)

Specifications

	NC-ONS-C401i	NC-ONS-C801pi	NC-ONS-C1601pi	NC-ONS-C810p	NC-ONS-C2401p	NC-ONS-C4801p
Ports & Physical Characteristics						
RJ45 Ports (MBPS)	4 x 10/100	8 x 10/100	16 x 10/100	8 x 10/100/1000	24 x 10/100/1000	48 x 10/100/1000
SFP/Uplink Ports	2 x SFP, 100/1000	4 x SFP, 100/1000		2 x SFP, 100/1000	4 x SFP, 100/1000	
PoE Spec	N/A	802.3at and 802.3af				
PoE Budget	N/A	240W	240W	130W	370W	740W
Unit Power	12-48 VDC , 10W	Dual 48 VDC, 360W		100-240 VAC, 155W	100-240 VAC, 550W	100-240 VAC, 900W
Power Supply	Sold separately (NC-ACCPS-24V10W)	Sold separately (NC-ACCPS-48V300W), supports 1 or 2 (for redundancy)		Internal		
Operating Temperature	-10 ~ 60 °C (14 ~ 140 °F)	-40 ~ 75 °C (-40 ~ 167 °F)	-20 ~ 60 °C (-4 ~ 140 °F)	0 ~ 50 °C (32 ~ 122 °F)	0 ~ 50 °C (32 ~ 122 °F)	0 ~ 50 °C (32 ~ 122 °F)
Dimensions	43 x 93 x 130 mm 1.7" x 3.7" x 5.1"	74 x 105 x 152 mm 2.9" x 4.1" x 6.0"	74 x 105 x 152 mm 2.9" x 4.1" x 6.0"	330 x 229 x 44 mm 13.0" x 9.0" x 1.7"	440 x 310 x 44 mm 18" x 12" x 1.7"	440 x 410 x 44 mm 18" x 16" x 1.7"
Weight	0.45 kg (1.0 lb)	0.9 kg (2.0 lb)	1.2 kg (2.6 lb)	1.9 kg (4.4 lb)	4.7 kg (10.5 lb)	6.4 kg (14.2 lb)
Mounting	DIN	DIN (back and side)		Rack	Rack	Rack
Certifications	UL, CE, RoHS, FCC	CE, RoHS, FCC	CE, RoHS, FCC	UL, CE, RoHS, FCC, RCM	UL, CE, C-TICK, RoHS, FCC	UL, CE, RCM, RoHS, FCC
Warranty	5 years	5 years	5 years	3 years	3 years	3 years
Networking Features						
Switching	4.8 Gbps	9.6 Gbps	11.2 Gbps	24 Gbps	56 Gbps	104 Gbps
Loop Detection	IEEE 802.1w RSTP					
VLAN	IEEE 802.1q VLAN Up to 4K– Configurable per port in Trunk, Access, or Local mode					
MAC Address Authorization	127 per switch 127 per port	56 per switch 7 per port	112 per switch 7 per port	256 per switch 127 per port		
SFP Requirement	ONS-CX-SFP for Fiber; ONS-CU-SFP for Copper					
Hybrid Copper & Fiber Aggregation Switch	Yes	Yes	No	Yes	Yes	No
Packet Buffer Size	4.1 MB	1 MB	1 MB	512 KB	512 KB	1.5 MB

Note that solution with copper Ethernet, multi-mode, or mixed cabling, the NC-ONS-C401i, NC-ONS-C801pi, NC-ONS-C810p, or NCONS-C2401p are substituted as the Aggregation Switch. In either solution, the Network Controller (NC-ONS-NC600) allows users to connect to Optigo OneView to manage their network.

Specifications subject to change without notice.

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