GPON OPTICAL NETWORK UNIT

Model: NCMO-0G4W10C0

Features



- Home Gateway Unit (HGU) for FTTH applications
- ITU G.984.x GPON port with 1.244Gbps/2.488Gbps link speed
- 10/100/1000 BASE-T Ethernet RJ45 Ports
- 2x2 11n WIFI AP, up to 300Mbps wireless connectivity
- SMPS 90~264VAC input, 12VDC output wall adapter
- Low Working Temperature SoC Chipset
- 2 PCB mounted WIFI embedded Antennas
- Support 1550 nm video overlay service

Specifications

ELECTRICAL SPECIFICATIONS			
ITEM	VALUE	UNIT	STANDARD
ONT Operation Voltage	12 (± 15%)	VDC	
Power Adapter Input Voltage	100-240 (50/60 Hz)	VAC	
Power Adapter Output Voltage	12	VDC	
Power Adapter Output Current	1	A	

GPON LINK GENERAL SPECIFICATIONS			
ITEM	VALUE	UNIT	STANDARD
Optical Connector	SC/APC	-	
Fiber Type	Single-Mode	-	
GPON Power Level TX	0.5 – 3.0 (1310 nm)	dBm	ITU-T G.984.2 AMD-1 Class B+
GPON Minimum Sensitivity RX	-27 (1490 nm)	dBm	
GPON Link Speed	1.244 (UP) / 2.488 (DOWN)	Gbps	ITU-T G.984.X

LAN GENERAL SPECIFICATIONS			
ITEM	VALUE	UNIT	STANDARD
LAN Connections	4	RJ-45	IEEE 802.3 Ethernet
Ethernet Speed	10/100/1000	Mbps	IEEE 802.3 Ethernet
GE Ports	LAN1	-	IEEE 802.3 Ethernet
FE Ports	LAN2,3,4	-	IEEE 802.3 Ethernet
ETH Info and Statistic	Keep information tables about connected users and package statistics	-	IEEE 802.3 Ethernet

Unless otherwise noted, the above specifications reflect typical device performance at stated reference levels in the recommended operating configuration(s). Specifications are subject to change without notice.

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WLAN SPECIFICATIONS			
ITEM	VALUE	UNIT	STANDARD
WLAN Bit Rates	UP To to 300	Mbps	802.11n
Frequency of Operation	2.4	GHz	802.11n
WIFI Channels	1 to 11	-	802.11n
Channel Bandwidth	20 and 40	MHz	802.11n
Security	WPA-PSK	-	802.11n
	WPA2-PSK		
	Mixed WPA2/WPA-PSK		
WIFI Antenna	X2 embedded Antenna	-	802.11n & 802.11 b/g
WIFI Antenna Frequency	2.4-2.49	GHz	-
WIFI Antenna Peak Gain @ 2.44 GHz	5	dBi	-
WIFI Antenna Power Handling	30	dBm	-
SSID	Up to 4		-

RF VIDEO OVERLAY SPECIFICATIONS			
ITEM	VALUE	UNIT	STANDARD
RF Bandwidth	50-1000	MHz	ANSI/SCTE 144 2012
RF Output Impedance	75	Ω	
RF Connector	1	F Type	
RF Amp Gain	20	dB	ANSI/SCTE 144 2012
Receiver Optical Wavelength	1550	nm	
Receiver Optical Power Range	+2 to -8	dBm	

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Standards and Protocols	
Layer 2	VALUE
MAC	Support the Ethernet data frame base on port, SA/DA Support 2000-byte MTU Compliant with IEEE 802.3as
VLAN	Support SSID to VLAN mapping Support 802.1p, 802.1d, 802.1q based QoS Support forwarding traffic class intro GEMPORT & TCONT Support ingress/egress 802.1p tag based QoS on each port Support double tagging, compliant with IEEE 802.1ad
Layer 3	
Standard	RFC 2663, 3022, 3027, 3489
IP	Support IPV4 & IPV6 dual stack Support DHCP server/client & static IP address
NAT/NAPT	Support NAT, NAPT, multi-NAT, transparent NAT
DNS	Support DNS server, DNS relay, dynamic DNS
Multicast	Support IGMP v2, v3, IGMP snooping
Broadcast	Support broadcast storm suppression
PPP	Support PPP associated with IETF RFCs 1332,1334,1661,1887 e 1994 Support PPP encapsulated over Ethernet Support PPP pass through

Standards and Protocols	
OAM, Security, Application	VALUE
Management	Support OMCI, TR-069, Web GUI, CLI
Image	Support firmware upgrade via remote server Hold a working image & an alternative image for image rollback
QoS	Support classify packets based on DSCP, IP, protocol Support classify packets based on 5 classification combination Support SP, WRR, SP+WRR scheduler
Restore Default	Press a hidden button for more than 10s to restore factory default Use GUI Web, CLI, Telnet method to restore factory default
Security	Support Access Control List Support IP, MAC, port, URL filtering Support ddos firewall Support DMZ

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