



TECHNICAL DATA SHEET  
FOR LCI-G1040D  
OPTICAL NETWORK UNIT



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### 1. Product overview

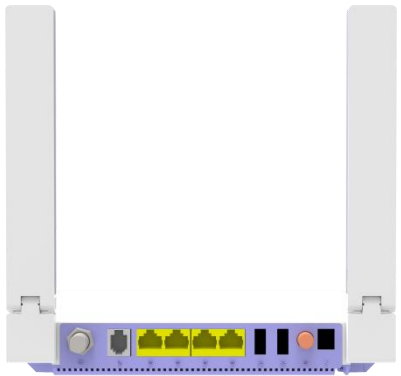
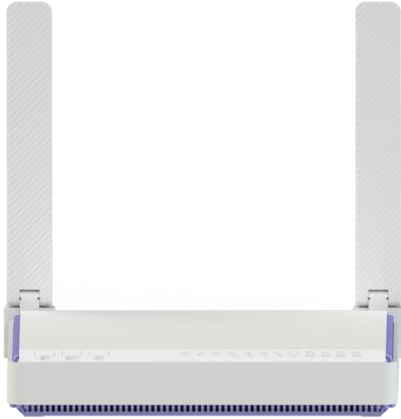
The Aviator series optical network unit (ONU) are designed to meet the requirements of fixed network operators for FTTH (Fiber to the Home) and triple play services. These products are based on mature chipset technologies with high cost performance, as well as IEEE802.11b/g/n/ac WIFI, Layer 2/3 and high-quality Voip technologies. They support comprehensive management of HGU (Home Gateway Unit) devices through OLT (Optical Line Terminal). They feature high reliability, convenient maintenance and have QoS (Quality of Service) guarantees for different services. Moreover, they fully comply with the technical regulations such as GPON (Gigabit Passive Optical Network) technical requirements like IEEE802.ah and ITU-T G.984.x.

### 2. Product Features

1. Support the comprehensive management of HGU functions.
2. Plug and play, with automatic detection, automatic configuration, automatic firmware upgrade and other functions.
3. Integrated OAM/OMCI remote configuration maintenance function.
4. Supports abundant QinQ VLAN and IGMP Snooping multicast.
5. Fully compatible with Optical Line Terminal based on Broadcom/PMC/Cortina chipset.
6. Support TR069 one-click batch configuration.
7. Support 802.11b/g/n/ac WIFI(2\*2T2R) function.
8. Support NAT, Firewall function.
9. Support IPv4 and IPv6 dual stack.



## 2. Product appearance



### 3. Technical specifications

Item	Description
Model	LCI-G1040D
Power Supply	12V, 1000mA
Overall dimensions	200mm×165mm×45mm
Antena	2 External Dual Band Antennas (7db)
Weight	<0.3kg(body)
Storage temperature	-40°C ~ 80°C
Storage humidity	5% to 95%(non-condensing)
Operating temperature	-5°C ~ 60°C
Operating humidity	10% to 90%(non-condensing)
Atmospheric pressure	62kPa ~ 106kPa
Dust prevention requirements	Meet YD/T1475-2006
Electrical strength	L&N with protected ground: 1500Vac
	L&N with Ethernet port: 3000Vac
Power supply overcurrent, overvoltage protection	Equipped
Lightning Protection	Power port: ±2.5KV(common mode); ±2.5KV(differential mode)
	Ethernet port: ±1.5KV(common mode)
EMC	Meet the regulations of GB 9254-1998, GB/T17618-1998
MTBF	50,000 hours
Installation mode	Wall mount/desktop



### 1 Product standards

1. "GY/T 143-2000" cable TV system AM laser transmitter and receiver into the network technical conditions and measurement methods.
2. Support "EPON equipment interoperability requirements" to meet all extended OAM functions.
3. "Access network technical requirements -- Passive Optical Network (EPON) based on Ethernet".
4. IEEE802.11ac, IEEE802.11n, IEEE802.11a/g, IEEE802.11b.
5. IEEE802.3ah.
6. IEEE802.3, IEEE802.3x.
7. IEEE802.1p priority.
8. IEEE802.1q VLAN.

### 4. Product indicator description

Indicator Light	Status	Instructions
POWER	Steady green	Power on the device properly
	Extinguish	Device is not powered on
PON/LOS	Green flashing	The ONU is attempting to establish a connection
	Steady green	The device link is active
	Steady red	The device has not been connected to the optical signal or the received optical power is lower than the optical receiving sensitivity



Indicators	Status	Instructions
WI FI	Steady green	Wireless on
	Off	Wireless off
WPS	Steady green	The WPS function is on
	Extinguish	WPS function off
USB0	Steady green	USB device is connected
	Extinguish	USB device not connected
USB1	Steady green	USB device is connected
	Extinguish	USB device not connected
TV	Steady green	CATV optical signal reception is normal
	Green flashing	The power of the CATV optical signal is too high, too low or there is a malfunction
	Extinguish	The CATV optical signal has not been installed or there is an abnormality in communication
LAN0	Steady green	The network port is connected, but no data is being transferred
	Blinking green	Data is being transferred over the network port
	Off	The PON unit has not been powered on or the network cable has not been connected



<b>Pilot lamp</b>	<b>Status</b>	<b>Instructions</b>
LAN1	Steady green	The network port is connected, but no data is being transferred
	Blinking green	Data is being transferred over the network port
	Off	Network cable not connected
LAN2	Steady green	The network port is connected, but no data is being transferred
	Blinking green	Data is being transferred over the network port
	Off	Network cable not connected
LAN3	Steady green	The network port is connected, but no data is being transferred
	Blinking green	Data is being transferred over the network port
	Off	Network cable not connected



## 5. Port description

Ports	Quantity	Description	Uses
RF	1	CATV RF output	Connect to a set-top box or TV
LAN0 ~ LAN4	4	RJ45, LAN0-LAN3, 10/100/1000Base-TX	Connected Ethernet device
USB0 ~ USB1	2	USB port	Connecting USB devices
ON/OFF	1	Push-button type	Push button power switch
POWER	1	12VDC, Inside "positive polarity"; Outside "negative polarity"	Connect the power adapter

- End of specification -

