

**FRACARRO**

# ONTG-4G1FTW-H

ONT 4GE 1FXS CATV WIFI 287793



**QUICK INSTALLATION GUIDE**

**UK  
CA** **CE**

## SAFETY WARNING

The product must only be installed by qualified persons, according to the local safety standards and regulations. Fracarro Radioindustrie is free from all civil and criminal responsibilities due to breaches of the current legislation derived from the improper use of the product by the installer, user or third parties. The product must be used in full compliance with the instructions given in this manual in order to protect the operator against all possible injuries and the product from being damaged.

### Installation warnings

- The product must not be exposed to any dripping or splashing and thus it should be installed indoors and in a dry location.
- Humidity and condensation could damage the product. In case of condensation, wait until the product is dry before using it.
- Handle the product carefully. Impacts can damage the product.
- Leave enough space around the product to ensure sufficient ventilation.
- Excessive temperatures and/or an overheating may affect the performance and the life of the product.
- Don't install the product above or near any heat sources, in dusty places or where it might come into contact with corrosive substances.
- In the event that the unit is fixed to the wall, use the proper screw anchors suitable to the characteristics of the fixing support. The wall and the anchoring system must be able to support at least 4 times the weight of the unit.
- Attention: to avoid being hurt, the unit must be fixed to the wall/floor in accordance with the installation instructions.
- Never look into the optical connectors of the product. Laser radiation is not visible to the naked eye and therefore long-term damage cannot be prevented. When working with the optical connectors of the splitter, always check that the lasers of any optical transmitters connected to it are turned off.



Simbolo di classe II

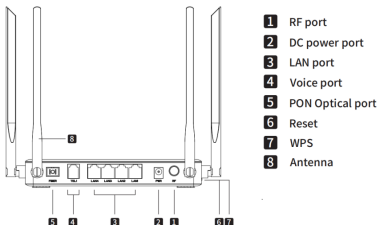


**ATTENTION:** Invisible laser radiation  
Don't look directly  
Class 1M laser product

### General warnings

In the event of a malfunctioning, do not try to fix the product as the guarantee would be invalidated. Although the information given in this manual has been prepared carefully and thoughtfully, Fracarro Radioindustrie S.r.l. reserves the right to modify it without notice and to improve and/or modify the product described in this manual. See the website [www.fracarro.com](http://www.fracarro.com) to have information relevant to the technical support and product guarantee.

## 1. INTERFACE AND CONNECTION



## 2. INSTALLATION PROCEDURE

2.1 Check packing list and all parts in the product package and intact.

2.2 ONU/ONT can be placed on a horizontal workbench or mounted onto a wall vertically or horizontally. Ensure no obstacles on the worktable and the surroundings affecting the installation of the device exist.

2.3 Refer to the preceding cable connections to connect the ONU/ONT:

- ▶ Connect the OPTICAL port with the fiber
- ▶ Connect the Ethernet port of the PC to the LAN port with the network cable
- ▶ Connect the telephone set or fax to the TEL port with the telephone cable
- ▶ Connect coaxial cable: connect the coaxial cable to the ONU/ONT RF connector
- ▶ Connect the power adapter to the PWR port

2.4 If the ONU/ONT is powered on, the PWR LED is on in green. If the PON port has the optical signal from the OLT, the LOS will be off. The PON LED blink means the ONU/ONT in registering to the OLT. When LED still on, a connection had created between the ONU/ONT and the OLT.

### 3. INDICATOR

Indicator		Description
PWR	Power status	<ul style="list-style-type: none"> <li>●On: The ONU/ONT is power on</li> <li>●Off: The ONU/ONT is power off</li> </ul>
LANn	LAN port status	<ul style="list-style-type: none"> <li>●On: Ethernet connection is normal</li> <li>●Blinking: Data is being transmitted through the Ethernet port</li> <li>●Off: Ethernet connection is not set up</li> </ul>
LOS	optical signals	<ul style="list-style-type: none"> <li>●On: Optical power lower than receiver sensitivity</li> <li>●Off: Optical in normal</li> </ul>
PON	ONT Register	<ul style="list-style-type: none"> <li>● On: Success to register to OLT</li> <li>● Blinking: In process of registering to OLT</li> <li>● Off: Failed to register to OLT</li> </ul>
INT	Internet status	<ul style="list-style-type: none"> <li>●On: The routed WAN Internet service is normal</li> <li>●Off: The routed WAN Internet service is abnormal</li> </ul>
TEL	Telephone port status	<ul style="list-style-type: none"> <li>●On: The connection between the TEL port and the voice server has been setup</li> <li>●Blinking: The voice service of the TEL port is established</li> <li>●Off: The connection between the TEL port and the voice server is not setup</li> </ul>
WiFi	WiFi	<ul style="list-style-type: none"> <li>●Blinking: Data is being transmitted</li> <li>●On: WiFi function Opens</li> </ul>
CATV	CATV status	<ul style="list-style-type: none"> <li>●On: CATV optical normal</li> <li>●Off: The CATV signals are not received</li> </ul>

## 4. SPECIFICATIONS

Item	Specifications
PON Port	<ul style="list-style-type: none"><li>●Optical interface: one GPON/EPON optical port</li><li>●Fiber: single-mode fiber</li><li>●Wavelength: Tx 1310nm, Rx1490nm</li><li>●Tx Optical Power: 0 ~ 4dBm</li><li>●Rx Sensitivity: -27dBm</li><li>●Saturation Optical Power: -8dBm (GPON) / -3dBm (EPON)</li></ul>
LAN Port	<ul style="list-style-type: none"><li>●100M or 1000M Ethernet port</li><li>●RJ45 connector</li><li>●Auto MDI/MDI-X</li><li>●Full/half duplex mode</li><li>●100m distance</li></ul>
Telephone Port	<ul style="list-style-type: none"><li>●RJ-11 voice ports</li><li>●1km distance maximum</li><li>●1 or 2 REN per RJ11 port</li><li>●Vrms&gt;50V</li></ul>
RF PORT	<ul style="list-style-type: none"><li>●Wavelength: 1550nm</li><li>●RF Frequency: 47MHz - 1000MHz</li><li>●RF Impedance: 75Ω</li><li>●Input Optical Power: -18dBm -0dBm</li><li>●RF Output level: 78dBμV</li></ul>
Power Supply	<ul style="list-style-type: none"><li>●External 12VDC power adapter</li></ul>
Environment	<ul style="list-style-type: none"><li>●Work Temperature: 0 ~ 40°C</li><li>●Storage Temperature: -40 ~ 85°C</li><li>●Work Humidity: 10% ~ 90% No-condensing</li><li>●Storage Humidity: 5% ~ 95% No-condensing</li></ul>

## 5. FAQ


When you have trouble in installation or operation, please reference to next table.

Common fault	Troubleshooting
PWR indicator LEDs are OFF	<p>Please check the power supply:</p> <ul style="list-style-type: none"> <li>●Check whether the power connection cable is connected well with the outlet.</li> <li>●Check whether the power button is On.</li> <li>●Check whether the voltage is normal.</li> </ul>
LOS LED light	<ul style="list-style-type: none"> <li>●If opical port LOS light keep on, the optical signal from PON optical port is abnormal, please check:</li> <li>●Whether connect the PON port in properly?</li> <li>●Optical fiber connector type matches the optical interface?</li> <li>●Whether the optical link loss is too higher, the input optical power is lower than the PON port receiving sensitivity?</li> </ul>
PON LED Blinking	<p>If ONU/ONT registration fails:</p> <ul style="list-style-type: none"> <li>●Whether the input optical power value is exceed ONU/ONT's saturation optical power value.</li> <li>●Whether the input optical power value is less than receiving sensitivity.</li> <li>●Whether OLT works properly, or other ONU/ONT belong to same OLT PON port can register successful. If other ONU/ONT is in similar case, it may cause by the OLT.</li> <li>●In EMS, if the ONU/ONT is in the OLT block list, then the ONU/ONT can't be registered. By default, all the connected ONU/ONT are not blocked which are able to register.</li> </ul>
Packet loss	<ul style="list-style-type: none"> <li>●Check whether the optical connector is ditry or bend radius is too small.</li> <li>●Check LAN port conection, and whether the work mode is matched.</li> <li>●Check whether the device connect with ONU/ONT work normally.</li> </ul>
LAN LED Off	<ul style="list-style-type: none"> <li>●Check whether the network cable is longer than 100M.</li> <li>●Check whether the network cable is connected properly.</li> </ul>

**6. NOTE**

# CONFORMITY TO EUROPEAN LAWS

Fracarro declares that the product complies with EU directive 2014/53/UE and 2011/65/UE. The full text of the EU Declaration of Conformity is available on the following website [ce.fracarro.com](http://ce.fracarro.com)

USER'S INFORMATION	
Disposal of Old Electrical & Electronic Equipment (applicable in the European Union and other European countries with separate collection system)	
	This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

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**FRACARRO**

Fracarro Radioindustrie SRL

Viale delle Querce n.9 - 31033 Castelfranco Veneto (TV) - ITALIA - Tel: +39 0423 7361 - Fax: +39 0423 736220.

Fracarro France S.A.S.

3 Boulevard de la Gare - 95210 Saint-Gratien - FRANCE Tel: +33 1 47283400

Fracarro (UK) - Ltd

Suite F9A, Whiteleaf Business Centre, Little Balmer, Buckingham, MK18 1TF UK - Tel: +44(0)1908 571571 Fax: +44(0)1908571570

[www.fracarro.com](http://www.fracarro.com) - [info@fracarro.com](mailto:info@fracarro.com) - [supportotecnico@fracarro.com](mailto:supportotecnico@fracarro.com) - chat whatsapp +39 335 7762667