



**Enabling the
hyper-connected world**

H642F

GPON ONT

Ultra-compact GPON ONT for DIN rail

Features & Benefits

- + Ultra-compact design
- + Optimized for usage in the Smart-Metering area
- + Uplink via GPON Class B (SC/APC)
- + Supports OMCI management
- + Provides two Ethernet interfaces: 1x 1000BaseT and 1x100BaseT with transparent bridge
- + Integrated 115/230V AC power supply

The GPON ONT H642F is specially designed for use in the smart metering environment. Its compact design makes it ideal for deployment in areas where space is a constrain. The ONT H642F provides two Ethernet interfaces for the parallel transmission of smart metering and smart home data or the Internet connection.

Application

Utilities and legal authorities increasingly require the transmission of consumption data to the utilities from their consumers. A smart meter collects the data. H642F will then be used to connect the smart meter to a GPON access network. The transmission of the metering data can be combined with connecting the households to high-speed Internet via GPON.

Zhone has developed the GPON-ONT H642F for this application. With its transparent bridge, two Ethernet interfaces, an integrated AC power supply and ultra-compact design, the ONT is ideal for integration into smart metering. This offers network operators two advantages at once:

- It can securely transmit the utility's data and in parallel
- It provides a Gigabit interface for broadband Internet con-nection or the transmission of data from smart home applications The H642F is therefore the ideal ONT for FTTH network terminations. Due to the integrated transparent bridge it can transmit both data streams in parallel without the need for an additional router in the network.

Installation

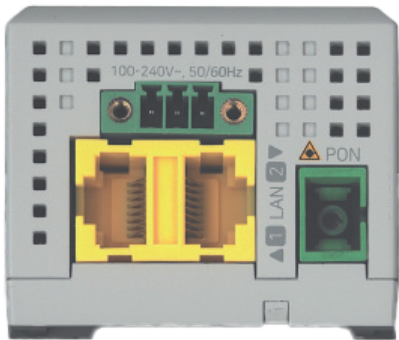
The H642F is plugged directly onto a DIN rail. Due to the compact design, which is adapted to the special installation conditions, a rule-compliant guidance of the glass fiber (bending radius) is guaranteed even under limited space conditions. The integrated power supply unit allows the ONT to be supplied directly with 115/230 VAC.

Interfaces

Via its two Ethernet interfaces, the utility can transfer data from a smart metering gateway to intelligent water, electricity or gas meters and at the same time connect the subscriber broad-band to the Internet. All interfaces are located on the bottom of the ONT.

Management

The H264F is monitored and configured via OMCI (ONT Management and Control Interface). OMCI is an interface standardized by the ITU, through which the ONT is remotely managed.



H642F: Connector panel on the bottom



H642F: Installed in a smart metering housing

H642F GPON ONT
Product Specifications

General	
Function	GPON ONT
Interfaces	
Uplink	GPON class B (SC/APC)
Ethernet interfaces	1x 1000BaseT 1x 100BaseT
Interoperability	
OLTs supported	Zhone OLTs Nokia: 7360 ISAM FX Huawei: Smart AX 5600 /5800 (please inquire for further OLT)

H642F GPON ONT

Product Specifications continued

Mechanic	
Dimensions (B x H x T)	54 mm x 88 mm x 44 mm
Protection class	IP21
Management	
Interface	OMCI (ONT Management Control Interface)
Power Supply	
Input voltage nominal (min/max)	Integrated power supply 115/230V AC via connector (in scope of delivery)
Power consumption	Max 3.2 W
Operation Environment	
Temperature range operation	-5 °C ... 45 °C (23 °F ... 113 °F)
Humidity	5-95% (non condensing)



Zhone Technologies, Inc