

F668C Datasheet

F668C

Optical Network Terminal

4GE 2USB

2.4G 5G AC WiFi



1. Overview

F668C is a intelligent routing-type Optical Network Terminal (ONT) FTTH solution. By using the GPON/EPON technology, ultra-broadband access is provided for home users. The F668C supports 802.11ac dual-frequency bands and features high-performance forwarding capabilities to ensure an excellent experience with voice, Internet, and HD video services. ADC730 supports 1 RF port for CATV, which can be switched off on OLT terminal. These features make the F668C a perfect option for broadband access.

2. Functional Feature

- * GPON WAN port with 1.244Gbps uplink / 2.488Gbps downlink link speed
- * Active Ethernet WAN port with 1.25Gbps bi-direction link speed
- * 4x GE Ethernet RJ45 Ports
- * 2x2 Ac WiFi support Up to 1200Mbps
- * 1x RF ports for CATV
- * 2x USB ports in host or device mode
- * DC 12V adaptor, max 1.5A current
- * -5 to 50°C operating ambient temperature

3. Hardware

CPU chipset : ZX279128S+RT990

Memory chipset : NT5CC256M16EP-EK + 8QG17MW874

WiFi Chipset : MT7612EN + MT7603EN

F668C Datasheet

4. Specification

| Technical items | Descriptions |
|-------------------------------|---|
| Model | F668C |
| Fiber port | 4GE+2USB+WiFi,SC single-mode, |
| Wavelength | Tx 1310nm, Rx 1490nm |
| Fiber interface | SC/APC |
| RX sensitivity | <-27dBm (1490nm) |
| WLAN | IEEE802.11b/g/n,2*2 MIMO, 2.4G/5G WIFI,external antenna(2dBi) |
| | 2.4GHz: 2 x 2 MIMO 802.11b/g/n ,5GHz: 2 x 2 MIMO 802.11a/n/ac |
| LAN | 1*10/100/1000Mbps adaptive Ethernet ports, full/half duplex, RJ45 interface |
| L2 forwarding capability | Forwarding packets of any length at wire speed |
| IPv4 L3 forwarding capability | 2Gbit/s with any length packets in downstream direction |
| | 1Gbit/s with any length packets in upstream direction |
| IPv6 L3 forwarding capability | 2Gbit/s with any length packets in downstream direction |
| | 1Gbit/s with any length packets in upstream direction |
| Configuration method | NMS, Web, or TR069 |
| DC power | Adapter input: 100-240 V AC, 50 – 60 Hz ; |
| | Adapter output: 12 V DC, 1.5A |
| Button | Reset, power |
| Power | ≤8W |
| Operation | Working temperature: -0-+40℃ |
| | working humidity:5-95%(non-condensation) |
| Dimension | 240*200*58mm(length*width*height) |
| Net weight | ≤0.5Kg |

F668C Datasheet

5.CATV Features

| Tech features | Description |
|-----------------------|---|
| Optical wavelength | 1540-1560nm (Single fiber, internal PWDM component) |
| Optical input range | 0~ -15dBm |
| Optical return loss | ≥45DB |
| Bandwidth | 40MHz-1000MHz |
| Flatness | ±1.5DB |
| RF output level | The default:75±5dBuV@155MHZ |
| AGC control | Regulation accuracy: ±1DB |
| RF Output return loss | ≥14DB |
| RF output impedance | 75Ω |
| MER | > 33 DB @251MHZ |
| CNR | ≥43 DB |
| CTB | ≥54 DB |
| CSO | ≥54DB |