# GWR1000M MiniNode

GWR1000M MiniNode is designed to receive 1310nm/1550nm broadcasting RF from downstream fiber and send upstream cable modem signals at 1310nm or other CWDM wavelength from the upstream fiber. GWR1000M has three outputs: -20dB Test port, one bi-directional RF port and one remote DC power port. GWR1000M supports DOCSIS2.0, DOCSIS3.0 and DOCSIS3.1 fiber to the building, fiber to the floor and fiber to the home.


## Features:

- Compact Aluminum Housing
- 1002/1218MHz forward path RF bandwidth
- 20dBmV RF output
- ALC effective at -7dBm~+1dBm optical input
- 5~42MHz/85MHz/204MHz return RF bandwidth
- Reverse RF over 1310nm or CWDM DFB laser working at continuous mode
- LED display forward and return optical working status
- 6KV Surge Protection
- 15V remote DC power adapter

## Specifications

| **Item** | **Parameter** |
|---|---|
| **Forward Path Receiver** | |
| Forward RF Optical Wavelength | 1260~1650 nm |
| Working Optical Input Power | -7dBm ~ +2dBm |
| Fiber Input Connector | SC/APC |
| Optical Return Loss | 50 dB |
| RF Bandwidth | 54MHz/102MHz/258MHz ~ 1218MHz |
| RF Connector | American F |
| RF Output Impedance | 75Ω |
| ALC Effective Range | Optical Input: -7dBm~+1dBm |

| | |
|---|---|
| ALC Stability | ±1 dB |
| RF Output Level | 20dBmV@-6dBm |
| RF Flatness | ±1 dB |
| RF Return Loss | >16 dB |
| CNR (@-6dBm) | >46 dB |
| CSO (@+1dBm) | <-60 dBc @77ch NTSC |
| CTB (@+1dBm) | <-60 dBc @77ch NTSC |
| **Return Path Transmitter** | |
| Return Path Laser Wavelength | 1310nm or CWDM |
| Optical Output Power | 3±1 dBm |
| Return RF Bandwidth | 5~42MHz/85MHz/204MHz |
| Return RF Level | 12dBmV~50dBmV |
| **Environment** | |
| Working Temperature | -40 ~ +60℃ |
| Storage Temperature | -40 ~ +85℃ |
| Power Supply | 11V~18V DC Power Adapter with F connector |
| Power Consumption | < 5.0W |
| Dimension (L*W*H) | 165mm×85mm×38mm |
| Weight | 0.5Kg |

15V DC powering at RF port

## Ordering Information

GWR1000M-ABC MiniNode

A (Forward Path RF Bandwidth): 10_1002MHz, 12_1218MHz

B (RF Frequency Duplexer): 1_42/54MHz, 2_65/85MHz, 3_85/102MHz, 4_204/258MHz

C (Forward path Tilt): 3_3dB, 5_5dB