



## HFC Transmission

### Optical Node

#### MW-ONU-5112

MW-ONU-5112 is a specially designed Optical Node/ Receiver suitable for medium network use. With competitive price, excellent performance and extinguish finishing, it's highly welcome worldwide.

MW-ONU-5112 has optional reverse transmitter to convert optical signal to RF signal for customs distribution use. To facilitate the various requirements from customers, it has optional one or two output ports, optional split frequency of 30/47,40/52,42/54, 65/85 and 65/87MHz.

Using PHILIPS receiving module and GaAs (or Si) hybrid, MW-ONU-5112 provides ideal optional node for analog and digital transmission, telephony and data services with the combination of competitive price and high performance. It can meet any advanced network requirements.

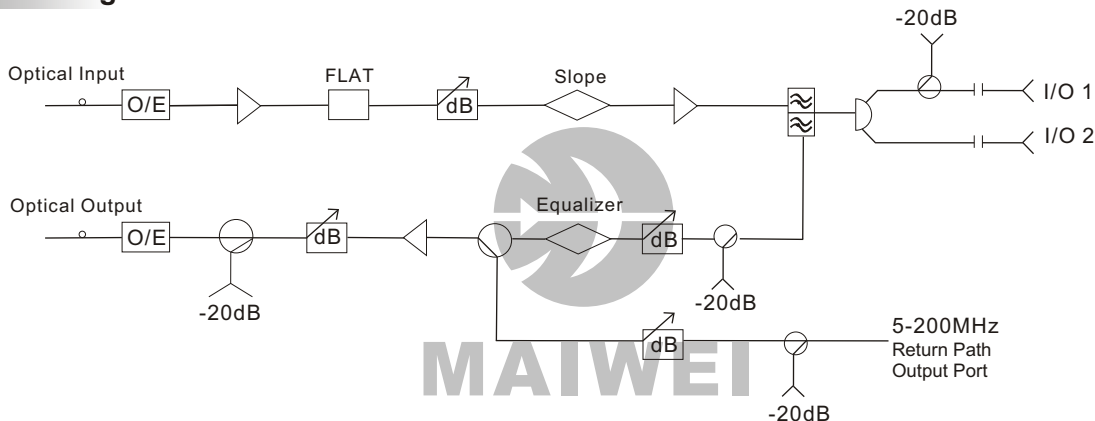


MW-ONU-5112

#### Feature

- 1. 862MHz two-way broadband platform;
- 2. Plug-in slope control circuit, optional split frequency;
- 3. Up-stream available (with reverse transmitting path);
- 4. PIN diode or Philips receiving module optional, superior reliability and performance;
- 5. One GaAs (or Si) hybrids for post-stage amplifier use, with high output level (>102dBuV for 1 output port)
- 6. One or two RF output ports optional;
- 7. With separate 5~200MHz independent return path;
- 8. LED display for optical power monitoring, optical power indication and low input power alarming;
- 9. High efficiency Switch mode power supply;
- 10. Easy maintenance.

#### Block Diagram





## Specification



## HFC Transmission

### RF Characteristics

Frequency Range	5-750/860MHz
Flatness	Forward 0.75dB
RF Return Loss	Forward: $\geq 16$ dB(fH-550MHz) $\geq 14$ dB(550-860MHz) Return: $\geq 14$ dB(5-200MHz)
Split Frequency	30/46;40/52;42/54;55/70;65/85MHz
Output Level	102dB V (0dBm Optical Power Input)
Test Port	-20dB (Compare to Main Output)
Slope	4~12dB,2dB/step Inserter (0dB preestablish)
Gain Adjustment	0~20dB,continuous adjustable(0dB preestablish)
RF Connector	F connector
Current Pass	10A
Power Supply	~220V(100~240VAC) ~60V(35~90VAC)
Power Consume	$\leq 30$ W
Link specification	C/ N $\geq 51$ dB (@59channel PAL-D Carrier, Standard Optical Transmitter, C/CTB $\geq 65$ dB -1dBm Optical power Receiving C/CSO $\geq 60$ dB Output Level 102dBuV(10KM fiber loss & optical attenuator loss)

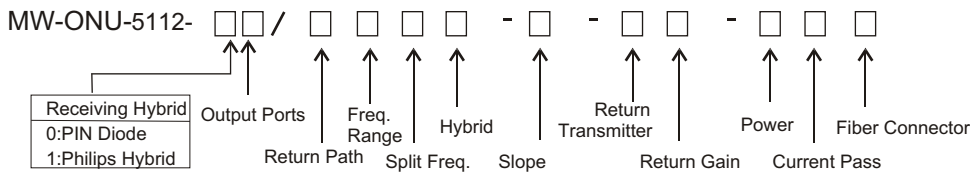
### Optical Characteristic

Optical Wave length	1290 -1600nm
Optical Return Loss	>45dB
Response of Receive Module	0.85 A/W(1310nm Typical )
Optical Input Power	-8~+2dBm(recommend -3~0dBm)
Optical Receiving Power Monitor Voltage	1V/mW
Optical Input Power	Max 2mW(3dBm)
Upstream Wavelength	1310nm or 1550nm
Upstream Optical Power	1mW or 2mW
Fiber Type	Mono(9/125 m)
Fiber Connector	FC/APC or SC/APC
Optical Power Alarming	Receiving Power $\leq -8$ dBm

### Circumstance

Storage Temperature	-40°C~ +70°C,
Operating Temperature	-25°C~ +55°C
Weight	2kg(Max)
Dimension	240mmx155mmx110mm

## Order Information



Return Path	Freq.Range	Split Freq.	Hybrid	Slope	Return Transmitter	Return Gain	Power	Current	Fiber Connector
X:One-way	7:750MHz	E:30/46	S:Si	0:0dB	N:without	16:16dB	1:60V	N:without	S:SC/APC
S:Return Path	8:860MHz	S:40/52	G:GaAs +Si	4:4dB	A:1mW FP	18:18dB	2:220V	F:10A	F:FC/APC
Optional		k:42/54		6:6dB	B:2mW FP	20:20dB			
A:Two-way		J:55/70		8:8dB	C:2mW DFB				
		A:65/87		10:10dB					
		X:Single		12:12dB					

## Accessories & Options

### Options

MW-SLP(B)*/*	Slope Pad(4-10dB,2dB/step)
MW-TP/**	Tap Pad
MW-EQR	Return Equalizer(2-10dB,2dB/step)
MW-SP	Split Pad

