

SR4020AW Optical Receiver with WDM (1 or 2 RF Outputs Optional)

1. Applications

SR4020AW optical receiver is home optical receiver with optical fiber access as its ultimate goal. It is suitable for FTTH (fiber to the home) network fiber subscriber access terminals, enabling analog or digital signals to enter the home. The machine uses low-power photo detectors, GaAs and optical AGC technology to meet the fiber-to-the-home CATV reception needs. This device can increase WDM and achieve triple play.

2. Performance Characteristics

- High quality aluminum profile shell with good heat dissipation.
- RF channel full GaAs low noise amplifier circuit. The digital signal satisfies -18dBm reception at a minimum, and the -10dBm reception of an analog signal at a minimum.
- With light input AGC (AGC range can be customized according to user).
- Low-power design, using high-efficiency switching power supply to ensure high reliability and high stability of the power supply. The overall power consumption is less than 1W, with a light detection circuit.
- Multi-stage lightning protection devices (TVS transient suppression diodes), and lightning protection systems are tight to ensure safe operation of the equipment.
- Built-in WDM can realize single-fiber home (1490/1310/1550nm) tri-network convergence applications.
- Built-in optical isolator, input to achieve 1490/1310nm isolation.
- The output gain is manually adjustable (0~18dB) and the output level is >80dBuV.
- SC/APC or FC/APC or custom optical connectors, metric or imperial RF interfaces.
- It can realize the power supply mode of output feed.
- Can realize single or dual output

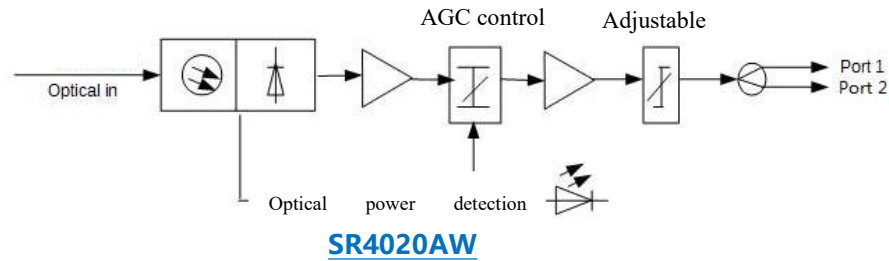
3. Technical Indicators

Input optical power	0dBm~-10dBm(Analog signal)	AGC Control range	(0~-9) dBm (default) , (-3~-12) dBm, (-6~-15)dBm optional
	&0dBm~-18dBm(Digital signal)	CTB(note)	≥65dB
optical reflection loss	>45 dB	CSO(note)	≥62dB
Optical connector form	FC/APC or SC/APC or FC/PC or SC/PC	Host voltage	DC5V
Frequency Range	45~1006MHz	Adapter voltage	AC90V ~145V&AC145V ~ 265V or custom
In-band flatness	±1dB@45~1006MHz	Infeed voltage	DC5V
RF output reflection	≥16dB@ 47~550MH ;	Operating temperature	-20℃ ~+55℃
Gain adjustment range	0-18dB	power	<1W
Output level	(78~80) dBuV(AGC:@-9~+0dBm, single port)(Pin=0dBm)	Product net size	129×79×26mm
Output port number	1 or 2	10 pack sizes	313×245×83mm
RF output impedance	75Ω	FCL package size (100pcs)	500×440×345mm
Carrier to Noise Ratio	≥51dB	Product net weight	0.17kg

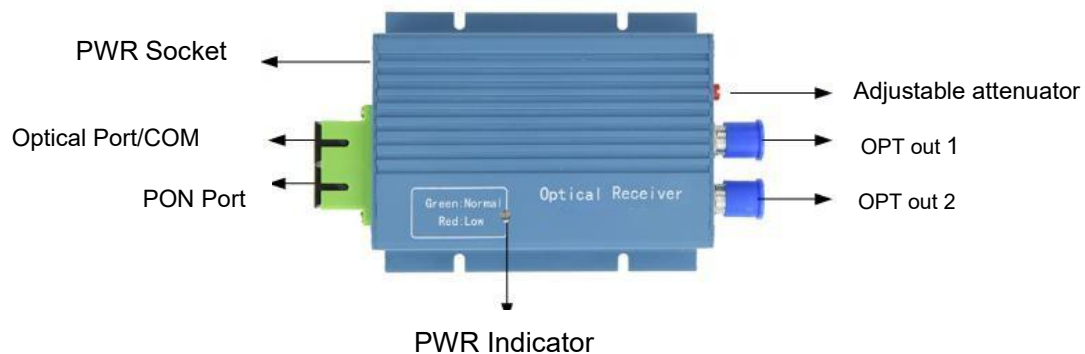
Note: Test conditions: 59 PAL-D analog television channel signals at 550 MHz frequency range, in the range of 550 MHz to 862 MHz, under specified link loss conditions

The digital modulation signal is transmitted within the rate range, the level of the digital modulation signal (within the 8 MHz bandwidth) is 10 dB lower than the carrier level of the analog signal, and the optical receiver input optical power is 0dBm, measuring C/N, CTB, CSO.

4. Block Diagram



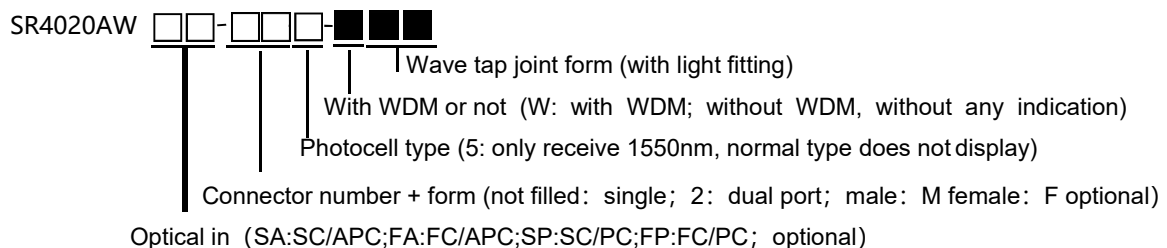
5. Product Display



6. Model Description

SR4020AW series light collection product nomenclature: PIN tube of this product only uses pigtail style, and can add WDM.

SR4020AW-Into the Optical Connector-RF Connector Number + Format-Photocell Type-Wavelength-Wave
Tap **(Black box is not written when order is not required)**



Example: SR4020AWSA-2M-5-WSA

Explanation: This equipment type is OR20, input optical connector is SC/APC, RF output is 2 ports, connector form is metric, photoelectric tube only receives 1550nm light, with WDM, WDM connector form is SC/ APC.

7. Product Repair

The warranty period for our company's equipment is one year. The company is responsible for the maintenance of the product for life. The equipment outside the warranty period will be charged with certain materials, maintenance and transportation costs.

The company does not assume any legal liability for any direct or indirect damage to the device or any consequential liability arising from improper use of the product by the user or the ability to make changes or force majeure on the product itself.