

SNGB-9912 (2 outputs) **SNGB-9924 (4 outputs)** **AGC, SNMP Bi-direction Optical receiver**



Product features

- Excellent AGC characteristics: Pin: $-9.0\text{dBm} \sim +2\text{dBm}$, $\Delta V_o : \leq \pm 1.0\text{dB}$.
- Variety of machine operating parameters controlled by the microprocessor, LED display.
- Output level and slope, adjust and set through the microprocessor.
- High performance, high reliability.
- Best cost performance of industry.

Main application

- HFC
- FTTC, FTTN

Product description

SNGB-9912 (two-port), SNGB-9924 (four-port), is a type of high-grade AGC, Network management, Bi-direction, outdoor optical receiver. Various operating parameters of machine are micro-processor-controlled, LED display. Through the keys of machine can adjust and set EQ, ATT. Optional network transponder, implement remote network management. Large dynamic range of optical AGC characteristics, SNGB-9912 (two-port), SNGB-9924 (four-port) high output, for FTTC, FTTN fiber access network. As a unit of CATV network RX, is a high performance, highly flexible, cost-effective CATV optical receiver.

- SNGB-9912 / N: AGC, Bi-direction, 2 ports output outdoor optical receiver, With network management Transponder.
- SNGB-9912 / O: AGC, Bi-direction, 2 ports output outdoor optical receiver, Without network management Transponder.
- SNGB-9924 / N: AGC, Bi-direction, 4 ports output outdoor optical receiver, With network management Transponder.
- SNGB-9924 / O: AGC, Bi-direction, 4 ports output outdoor optical receiver, Without network management Transponder.

Product series

Model number	Under line operating wavelength	Number of output port	Network management (optional)	Return launch (optional)
NGB-9912 / N-0000	47~862 MHz	2	Transponder with network management	Without return launch
NGB-9912 / N-4xxx	52~862MHz			With return launch, 5~42MHz
NGB-9912 / N-6xxx	88~862MHz			With return launch, 5~65MHz
NGB-9912 / O-0000	47~862 MHz		Transponder without network management	Without return launch
NGB-9912 / O-4xxx	52~862MHz			With return launch, 5~42MHz
NGB-9912 / O-6xxx	88~862MHz			With return launch, 5~65MHz
NGB-9924 / N-0000	47~862 MHz	4	Transponder with network management	Without return launch
NGB-9924 / N-4xxx	52~862MHz			With return launch, 5~42MHz
NGB-9924 / N-6xxx	88~862MHz			With return launch, 5~65MHz
NGB-9924 / O-0000	47~862 MHz		Transponder without network management	Without return launch
NGB-9924 / O-4xxx	52~862MHz			With return launch, 5~42MHz
NGB-9924 / O-6xxx	88~862MHz			With return launch, 5~65MHz



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Model explanation

SNGB – 99[Quantity of output stage amplifier module][Number of RF outputs] – [Return bandwidth] [Return transmit wavelength] [Laser type] [Return optical power] – [Connector] – [Power supply]

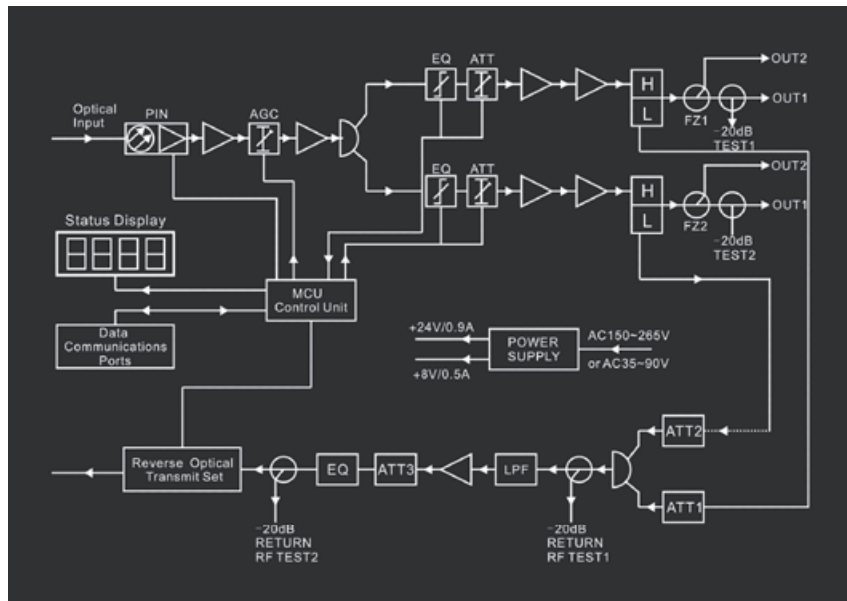
Product series	S	Analogue optical
SNMP	N	
ALC (AGC)	G	
FTTB	B	
Product type	99	Bi-direction outdoor type
	90	Unidirection outdoor type
Quantity of output stage amplifier module	1	1 piece
	2	2 pieces
Number of RF outputs	2	2 ports
	4	4 ports
Return bandwidth	0	Without
	4	5~42 MHz
	6	5~65 MHz
Return transmit wavelength	0	Without
	3	1310 nm
	5	1550 nm
	9	1590 nm
Laser type	0	Without
	D	DFB
	F	FP
Return optical power	0	Without
	4	2~4dBm
Connector	LA	LC/APC
	SA	SC/APC
	FA	FC/APC
Power supply	11	110VAC
	22	220VAC
	60	60VAC

Technical index

Performance		Index	Supplement
Optic feature	Operating wavelength	(nm)	1260~1620
	Responsivity	(A/W)	≥0.85
			≥0.9
	Optical AGC control	(dBm)	-9~+2
	Return loss	(dB)	≥50
RF feature	Optical fiber connector		LC / APC
	Operating bandwidth	(MHz)	47~862
			52~862
			88~862
	Flatness	(dB)	≤±1.0
	Output level	(dBμV)	108±1.0
	AGC feature	(dB)	≤±1.0
	Output level adjust range	(dB)	-20~0
	Output slope adjustment range	(dB)	-10~0
	Return loss	(dB)	>14
	Input impedance	(Ω)	75
	RF connector	(dB)	F-Female
	Link feature	Test channel	59CH(PAL-D)
			Digital QAM
		OMI	(%) 3.8
		CNR	(dB) ≥52
		CTB	(dB) ≤-65
		CSO	(dB) ≤-60
Return transmit feature	Optical emission wavelength	(nm)	1310
			1550
			1590
			1610
	Laser type		DFB
			FP
	Optical output power	(dBm)	2~4
	Optical connector type		LC / APC
	RF operating bandwidth	(MHz)	5~42
			5~65
	Input level	(dBμV)	85~90
	Input Impedance	(Ω)	75
General feature	SNMP network management interface		RJ45
	Power supply	(V)	AC(150~265)V
			AC(35~90)V
	Power consumption	(W)	≤15
	Work temp.	(°C)	-40~60
	Storage temp.	(°C)	-40~65
	Operating relative humidity	(%)	5~95
Size (W)x(D)x(H)			9.4×9.4×5.9 (")
			240×240×150 (mm)

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Block diagram



Structure diagram

