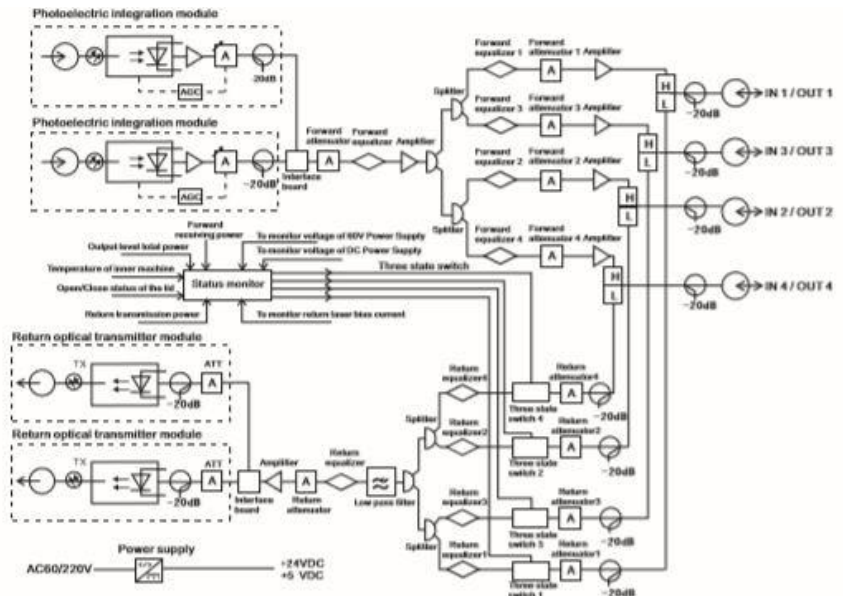


OPN8601G

Outdoor Optical Workstation with Independent Outputs



Features

- Four (4) independent RF output with optical Automatic Gain Control (AGC), any optical node in one optical network, if only the optical power range is within $-7\text{dBm} \sim +2\text{dBm}$, we don't need adjust the attenuating value of the attenuator of this machine, we can ensure the output level of the whole machine remain the same, and CTB & CSO are remained unchanged, it is easy for debugging the project.
- Platform design of forward path upto 1000MHz and return path from 5MHz, with 4 independent forward path high-level outputs.
- It adopts FTCE surge protection, discharge tube electronic crowbar (option).
- The modular design makes it convenient to install. It includes main RF amplifier module, optical receiving module, return optical transmitting module, and responder module (option). The fiber tray is convenient for fiber work.
- Plug-in auto gain control (option) and auto temperature control (option) optimize the output level of optical work station. Plug-in diplex filters
- Plug-fixed equalizer, Plug-fixed attenuator, scientific and rational online test port, make it more convenient for debugging.
- The switch power supply is efficient and energy-saving, to support dual power supplies hot back up.120VAC voltage is adapted to 90~140ACV 50/60Hz optional 40~95V/50Hz.
- The network management interface is compliant with international standards and supported Web management mode, it can be used to monitor and manage status of products (optional).

Parameters of forward path

No.	Item	Unit	Performance Indicators
1	Optical wavelength	Nm	1310, 1550 dual windows
2	Receiving optical power	dBm	-7~+2
3	Optical AGC control range	dB	-6~+1
4	Optical AGC control range	dB	>47
5	Optical Return Loss	MHz	xx~862 (1000)
6	RF frequency range	dB	±0.6
7	Flatness	dBμV	Standard type:108 High level type: 112
8	Nominal RF output level	dB	≥51
9	C/N (Note)	dB	≥ 66
10	C/CTB (Note)	dB	≥ 63
11	RF Output impedance	Ω	75
12	RF output return loss	dB	≥17 (xx~550)MHz ≥14 (550~862)MHz
13	Equivalent input noise current	PA/ Hz	≤8
14	Accuracy of test port	dB	-20±0.75
15	Power Consumption	W	80W 110VAC (optional 60VAC)
16	Dimension	mm	420x250x170

Parameters of return path

No.	Item	Unit	Performance indicators
1	Optical wavelength	Nm	1310±20 or 1550±10
2	Type of Laser		DFB Laser FP Laser with isolation
3	Output optical power	dBm	-3 ~ +3
4	Stability of output optical power	dB	±0.8
5	RF frequency range	MHz	5~ xx (42MHz or 80MHz options)
6	RF input level (Note 1)	dBμV	75-85
7	RF input return loss	dB	≥16
8	RF input impedance	Ω	75
9	Link flatness (Note 2)	dB	±1.0
10	Noise to Power Ratio (NPR) Dynamic range (Note2)	dB	≥ ≥ 20 (NPR 30dB) ≥ ≥ 15 (NPR 30dB)

Note: custom-made products are available as per requirements