



DSB-80-B



DEVICE

80 channel DWDM Source Bank

OVERVIEW

The DWDM Source bank is a 80 channel DSB system that produces 80 ITU channels with 80 DFB laser sources, integrated in 10 benchtop units. The wavelength and output power for each channel is tuned through use of the touchscreens or through a Z-link wireless controller and LabVIEW software.

FEATURES

- 80 ITU channels
- Adjustable wavelength and Current
- Output can be customized to PM Panda Fiber Connector
- Wavelength tuning range of $\pm 1\text{nm}$
- Easy-to-use Touchscreen
- Powerful LabVIEW Software for remote control and monitoring

SOFTWARE

- 7" LCD Touchscreen
- Built-in Intuitive GUI
- Remote Control via Z-link

APPLICATIONS

- Laboratory Testing and Measurement
- DWDM Networks
- Seed Laser
- Fiber Optics Components
- Fiber Sensors

CUSTOMIZATION

- PM or SM outputs available
- Various power levels (5 mW, 10 mW, 20 mW)
- A large selection of ITU channels (can specify number of each)
- See next page for ordering instructions





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SPECIFICATIONS

Wavelength	80 ITU Channels between Ch. 18 and 61 on 50 GHz Grid
Channel Spacing	50 GHz
Output Power	5 mW, 10 mW, 20 mW
Standard Laser Linewidth	2 MHz typ., 10 MHz max
Side Mode Suppression Ratio	45 dB typ.
Relative Intensity Noise	-145 dB/Hz max
Output Power Stability	±0.05 dB
Fiber Type	SMF-28
Optical Connector	FC/APC

OPTICAL

MECHANICAL

Operating Temperature	10 °C to +40 °C
Storage Temperature	-10 °C to +70 °C
Operating Humidity	0% to 85% Relative Humidity
Dimensions (LxWxH)	484mm x 393 mm x 151 mm (each sub-unit)
Weight	< 2.5 kg

ELECTRICAL

Power Supply	100-240V AC power
Display	7" LCD Touchscreen
Software	GUI Interface

ORDER OPTIONS

DSB-xx-B-yy-zz

xx: specifies number of channels
ie. 5, 10, 40, 80...

yy: specifies channel output power (mW)
ie. 5, 10, 20...

zz: specifies PM or SM
PM for PM, none for SM





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ITU 50 GHz Channels

Channel (#)	Wavelength (nm)	Frequency (GHz)	Channel (#)	Wavelength (nm)	Frequency (GHz)	Channel (#)	Wavelength (nm)	Frequency (GHz)	Channel (#)	Wavelength (nm)	Frequency (GHz)
1	1577.03	190100	19	1562.23	191900	37	1547.72	193700	55	1533.47	195500
1.5	1576.61	190150	19.5	1561.83	191950	37.5	1547.32	193750	55.5	1533.07	195550
2	1576.2	190200	20	1561.42	192000	38	1546.92	193800	56	1532.68	195600
2.5	1575.78	190250	20.5	1561.01	192050	38.5	1546.52	193850	56.5	1532.29	195650
3	1575.37	190300	21	1560.61	192100	39	1546.12	193900	57	1531.9	195700
3.5	1574.95	190350	21.5	1560.2	192150	39.5	1545.72	193950	57.5	1531.51	195750
4	1574.54	190400	22	1559.79	192200	40	1545.32	194000	58	1531.12	195800
4.5	1574.13	190450	22.5	1559.39	192250	40.5	1544.92	194050	58.5	1530.72	195850
5	1573.71	190500	23	1558.98	192300	41	1544.53	194100	59	1530.33	195900
5.5	1573.3	190550	23.5	1558.58	192350	41.5	1544.13	194150	59.5	1529.94	195950
6	1572.89	190600	24	1558.17	192400	42	1543.73	194200	60	1529.55	196000
6.5	1572.48	190650	24.5	1557.77	192450	42.5	1543.33	194250	60.5	1529.16	196050
7	1572.06	190700	25	1557.36	192500	43	1542.94	194300	61	1528.77	196100
7.5	1571.65	190750	25.5	1556.96	192550	43.5	1542.54	194350	61.5	1528.38	196150
8	1571.24	190800	26	1556.56	192600	44	1542.14	194400	62	1527.99	196200
8.5	1570.83	190850	26.5	1556.15	192650	44.5	1541.75	194450	62.5	1527.6	196250
9	1570.42	190900	27	1555.75	192700	45	1541.35	194500	63	1527.22	196300
9.5	1570.01	190950	27.5	1555.34	192750	45.5	1540.95	194550	63.5	1526.83	196350
10	1569.59	191000	28	1554.94	192800	46	1540.56	194600	64	1526.44	196400
10.5	1569.18	191050	28.5	1554.54	192850	46.5	1540.16	194650	64.5	1526.05	196450
11	1568.77	191100	29	1554.13	192900	47	1539.77	194700	65	1525.66	196500
11.5	1568.36	191150	29.5	1553.73	192950	47.5	1539.37	194750	65.5	1525.27	196550
12	1567.95	191200	30	1553.33	193000	48	1538.98	194800	66	1524.89	196600
12.5	1567.54	191250	30.5	1552.93	193050	48.5	1538.58	194850	66.5	1524.5	196650
13	1567.13	191300	31	1552.52	193100	49	1538.19	194900	67	1524.11	196700
13.5	1566.72	191350	31.5	1552.12	193150	49.5	1537.79	194950	67.5	1523.72	196750
14	1566.31	191400	32	1551.72	193200	50	1537.4	195000	68	1523.34	196800
14.5	1565.9	191450	32.5	1551.32	193250	50.5	1537	195050	68.5	1522.95	196850
15	1565.5	191500	33	1550.92	193300	51	1536.61	195100	69	1522.56	196900
15.5	1565.09	191550	33.5	1550.52	193350	51.5	1536.22	195150	69.5	1522.18	196950
16	1564.68	191600	34	1550.12	193400	52	1535.82	195200	70	1521.79	197000
16.5	1564.27	191650	34.5	1549.72	193450	52.5	1535.43	195250	70.5	1521.4	197050
17	1563.86	191700	35	1549.32	193500	53	1535.04	195300	71	1521.02	197100
17.5	1563.45	191750	35.5	1548.91	193550	53.5	1534.64	195350	71.5	1520.63	197150
18	1563.05	191800	36	1548.52	193600	54	1534.25	195400	72	1520.25	197200
18.5	1562.64	191850	36.5	1548.11	193650	54.5	1533.86	195450	72.5	1519.86	197250

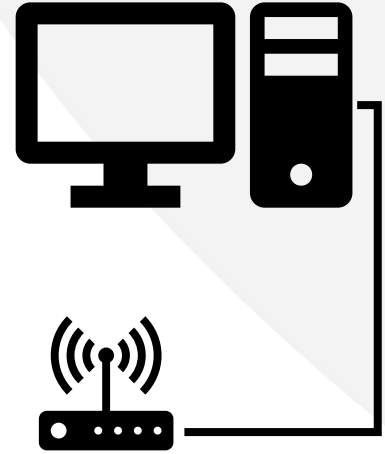




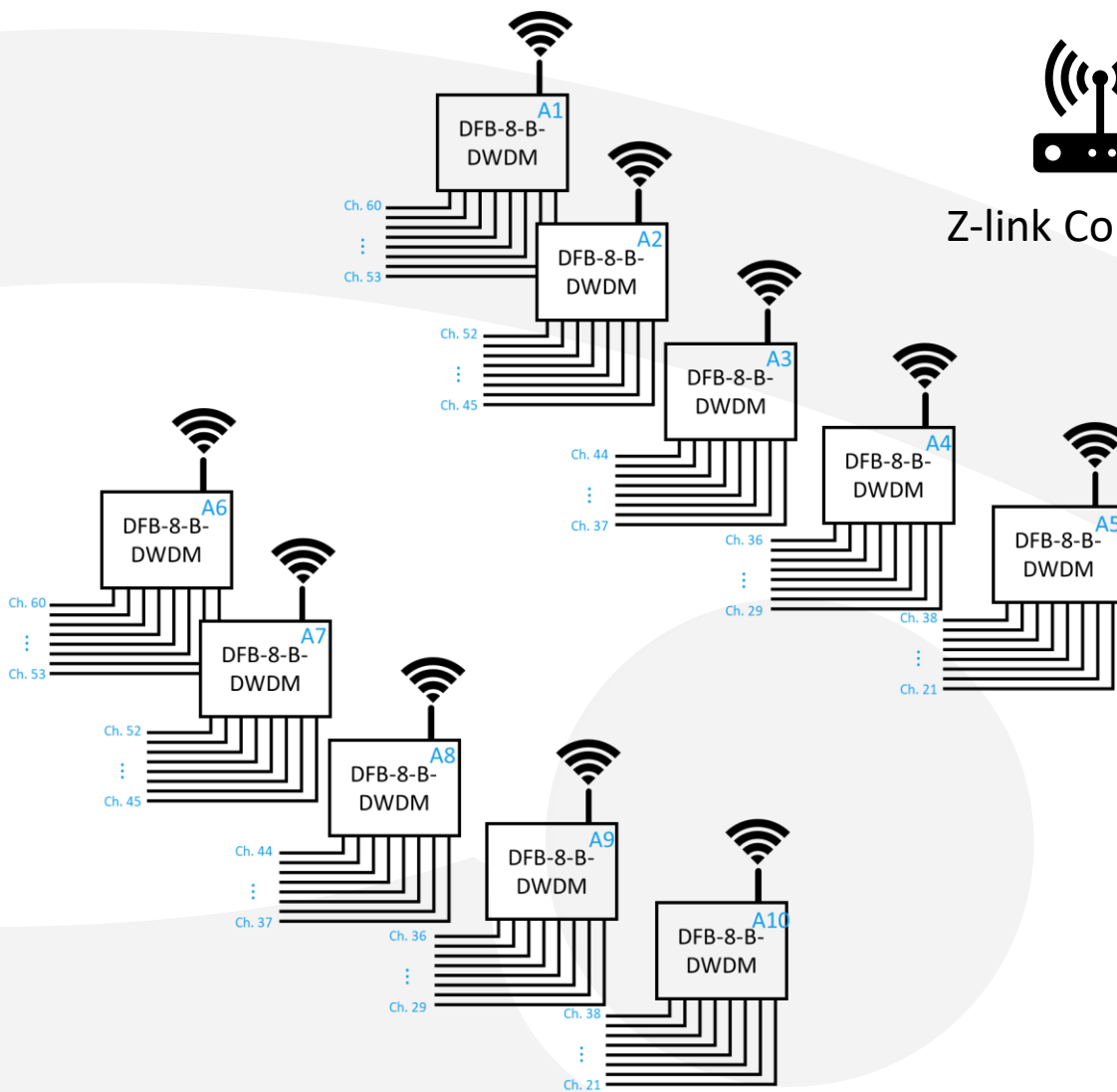
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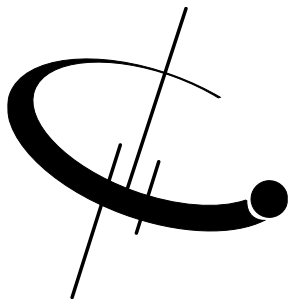
FUNCTION
DIAGRAM

PC (not included)



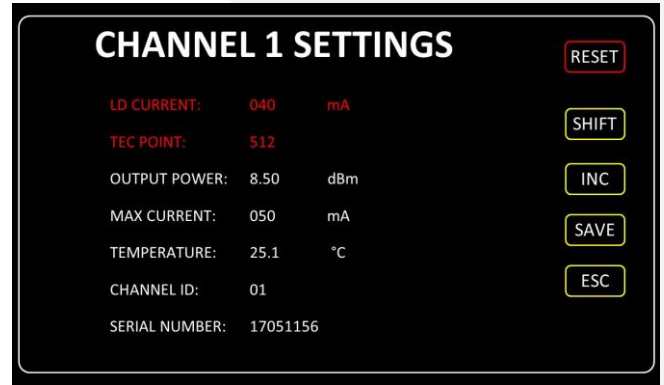
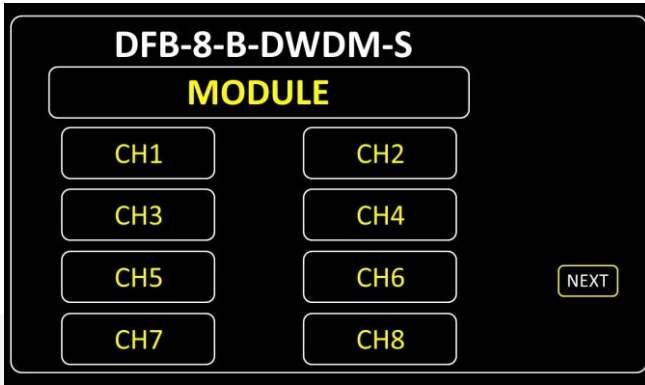
Z-link Controller





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Touchscreen



Wireless LabVIEW

SOFTWARE INTERFACES

