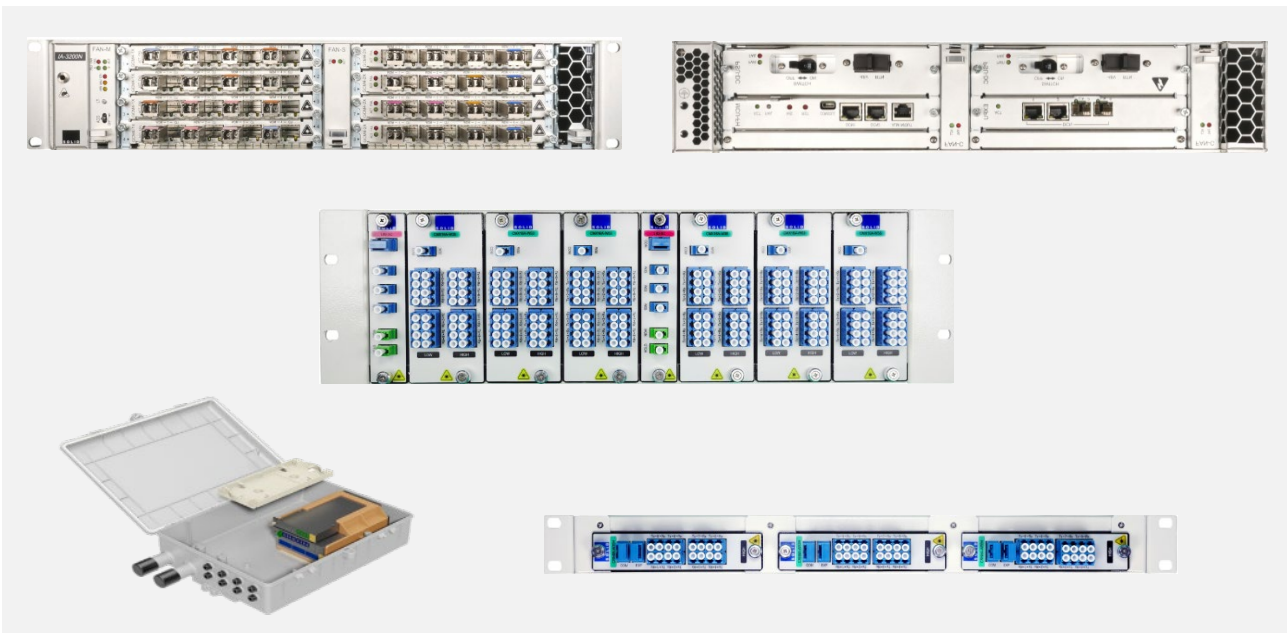


SOLID

iMUX / iMUX+

Tunable Passive DWDM for Optical Access Product Specification / Parts List



iMUX unlocks network capacity within an existing fiber plant to achieve economies of scale, reduce capital expenditures and lower operational costs by creating simple, integrated and future-proof optical access networks.

SOLID's patented tunable self-tuning transceivers along with optimally designed MUX/DEMUX and coordinated filters offer a cost effective DWDM solution for optical access in environments where operators experience fiber shortage. It supports point-to-multipoint and liner network topology.

INFINITY ACCESS™ also provides a semi-passive option called iMUX+, which enables switching the WDM line into standby fiber when the working line is cut.

Key Features

- Eight tunable transceivers simplify WDM logistics and reduce inventory management costs
- Self-tuning enables easy and fast installation
- Patented software-based wavelength locking maintains the competitive price
- Performance monitoring of remote transceiver through out of band channel
- WDM line protection and AI enabled proactive maintenance supported by optional active electronics in head-end
- Up to 96 wavelengths supported over a single strand
- Compact and robust MUX/DEMUX and filters in LGX form factor

System Overview

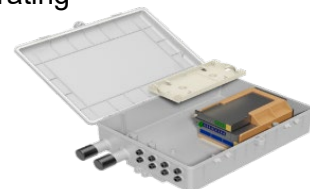
iMUX Passive in Head End (HE)

- LGX form factors
- Three types of AWG modules
 - 50GHz channel spacing compliant with ITU-T G.694.1
 - 16 TX/RX Ports for 1351nm, 1531nm and 1551nm
- Three band (1351nm, 1531nm and 1551nm) combining filter
- 14 slots, 3U indoor LGX shelf



iMUX Passive in Tail End (TE)

- LGX form factors
- Industrial temperature grade
- Six types of AWG modules
 - 50GHz channel spacing compliant with ITU-T G.694.1
 - Eight TX/RX ports for low and high band of 1351nm, 1531nm and 1551nm
- Six band (1351nm low & high, 1531nm low & high, and 1551nm low & high) combining filter
- Six types of ADD/DROP filter
 - Wide range wavelength operation
 - Eight TX/RX Add/Drop for linear (Cascade) topology
- Two different shelf types for RN passive modules
 - Indoor 1U, 3 slots LGX shelf
 - Outdoor enclosure accommodates 2 RN modules, IP53 rating



iMUX+ Active in Head End (HE)

- 19-inch, 2RU height providing a total eight slots for units
- Active units for WDM line protection and channel power monitoring
 - Line Switch Unit for protection in point-to-point topology
 - Optical channel monitoring units for measuring the transmitting and receiving power levels
- Main Control Unit (MCU) for EMS
- Power: -48VDC 1+1 redundancy / Operating Temperature: -5 °C ~ +50 °C (Ambient)



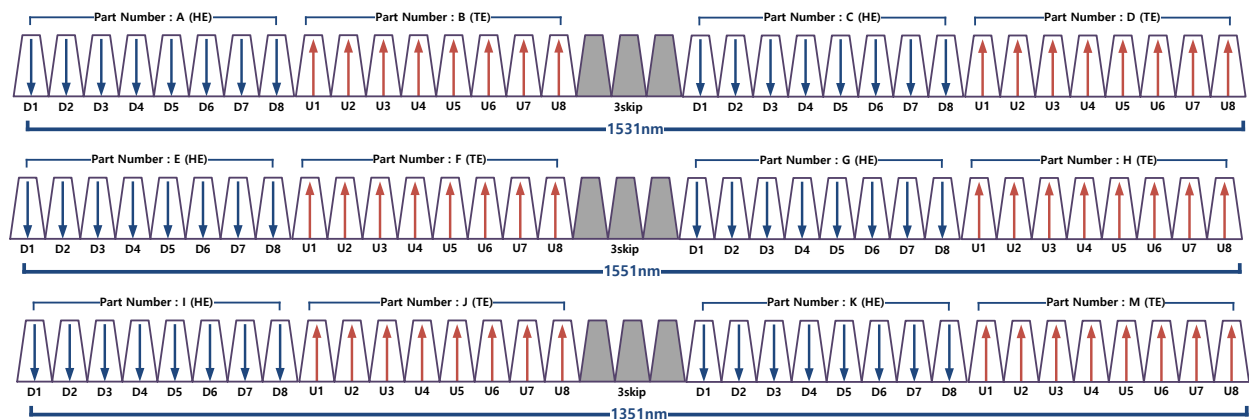
Front View



Rear View

iMUX OPTIMUM Tunable Optics

- 10Gbps or 25Gbps data rate
- DWDM grid compliant with ITU-T G.694.1
- Eight wavelengths tunable transceiver in 50GHz step channel spacing
- Fully self-tuning wavelength
- Wavelength locking by patented software-based technology
- Remote diagnostics by Auxiliary Message Control Channel (AMCC)
- MSA compliant SFP+ and SFP28 form factor
- Duplex LC connector





iMUX / iMUX+ Tunable Passive DWDM

CH#	SKU #	1531		SKU #	1551		SKU #	1351	
		THz	nm		THz	nm		THz	nm
1	A	196.05	1529.163	E	193.75	1547.321	I	223.23	1343.006
2		196.00	1529.553		193.70	1547.721		223.16	1343.382
3		195.95	1529.944		193.65	1548.115		223.10	1343.758
4		195.90	1530.334		193.60	1548.515		223.04	1344.135
5		195.85	1530.725		193.55	1548.915		222.98	1344.512
6		195.80	1531.116		193.50	1549.315		222.91	1344.889
7		195.75	1531.507		193.45	1549.715		222.85	1345.266
8		195.70	1531.898		193.40	1550.116		222.79	1345.643
9	B	195.65	1532.290	F	193.35	1550.516	J	222.66	1346.399
10		195.60	1532.681		193.30	1550.918		222.60	1346.777
11		195.55	1533.073		193.25	1551.319		222.54	1347.155
12		195.50	1533.465		193.20	1551.721		222.48	1347.533
13		195.45	1533.858		193.15	1552.122		222.41	1347.912
14		195.40	1534.250		193.10	1552.524		222.35	1348.291
15		195.35	1534.643		193.05	1552.926		222.29	1348.670
16		195.30	1535.036		193.00	1553.329		222.23	1349.049
17	C	195.10	1536.609	G	192.80	1554.940	K	221.98	1350.569
18		195.05	1537.003		192.75	1555.343		221.91	1350.949
19		195.00	1537.397		192.70	1555.747		221.85	1351.330
20		194.95	1537.792		192.65	1556.151		221.79	1351.710
21		194.90	1538.186		192.60	1556.555		221.73	1352.091
22		194.85	1538.581		192.55	1556.959		221.66	1352.473
23		194.80	1538.976		192.50	1557.363		221.60	1352.854
24		194.75	1539.371		192.45	1557.768		221.54	1353.236
25	D	194.70	1539.766	H	192.40	1558.173	M	221.41	1354.000
26		194.65	1540.162		192.35	1558.578		221.35	1354.382
27		194.60	1540.557		192.30	1558.983		221.29	1354.765
28		194.55	1540.953		192.25	1559.389		221.23	1355.147
29		194.50	1541.349		192.20	1559.794		221.16	1355.530
30		194.45	1541.746		192.15	1560.200		221.10	1355.913
31		194.40	1542.142		192.10	1560.606		221.04	1356.297
32		194.35	1542.539		192.05	1561.013		220.98	1356.680

Network Application

