



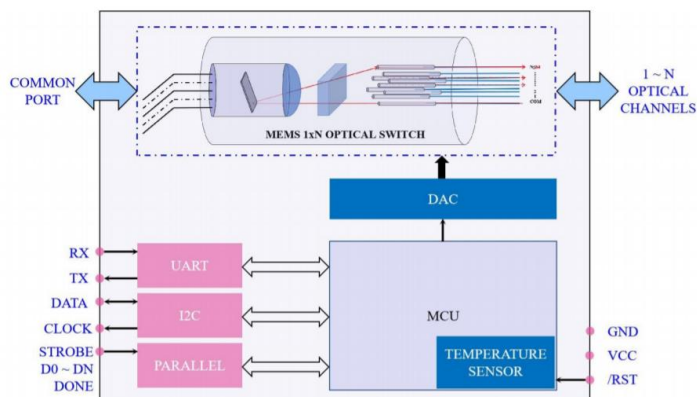
MEMS PM fiber Optical Switch Module (<16ch)

Features	
Low Insertion Loss	
Fast Switch time	
Compact package	
Application	
Optical Network routing	
Fiber sensing	

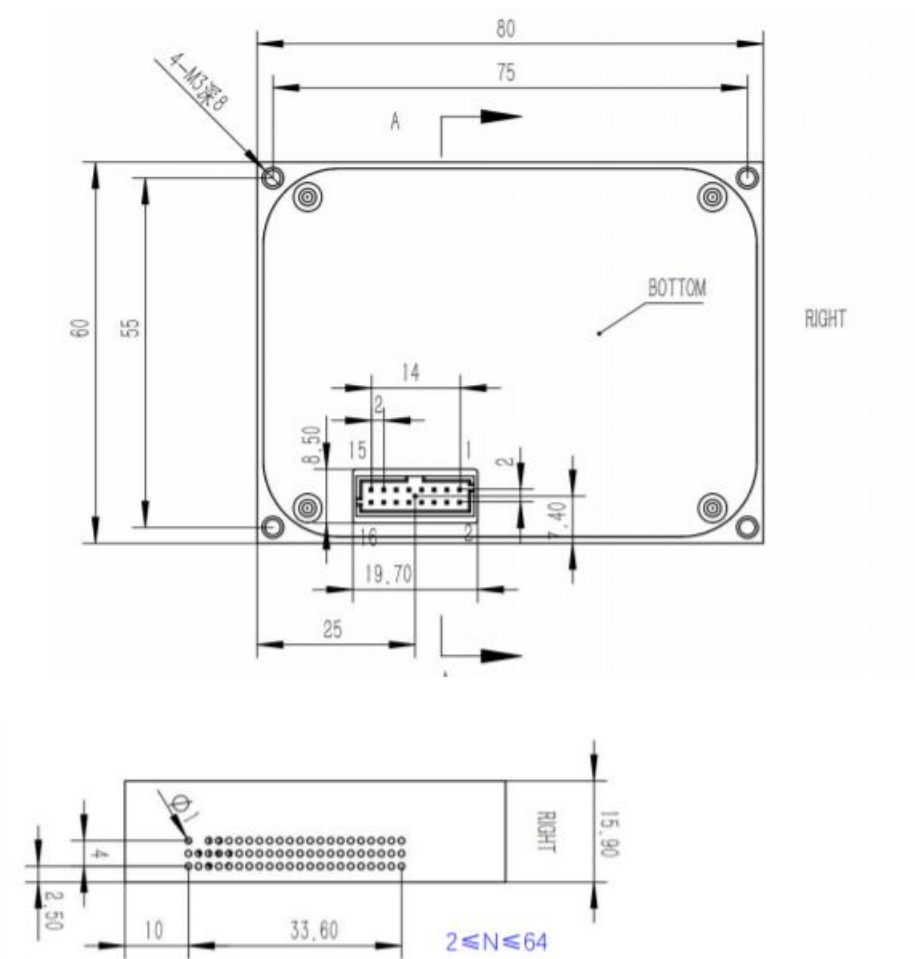
Specifications

PARAMETER		VALUE
Wavelength (nm)		1310,1550
OSW Channel		2~64
Insertion Loss (dB)	1x2	≤1.0
	1x4	≤1.2
	1x8	≤1.4
	1x16	≤2.4
Return Loss (dB)		≥45
Repeatability (dB)		≤0.1
Crosstalk (dB)		≥40
PER (dB)		≥18(≤4ch) / ≥16(≤8ch) / ≥15(≤16ch)
Switch Time (ms)		≤5 (≤8ch) / ≤10 (≤16ch)
Durability (cycle)		≥1x10 ⁹
Maximum Optical Power (mW)		≤500
Latching type		Non-Latching
Dimensions (mm)		75x30x13 (<8ch)/ 80x60x16(≤16ch)
Supply Voltage(V)		5
Control Type		UART or Parallel
Operation Temperature °C		-5~65
Storage Temperature °C		-40~85

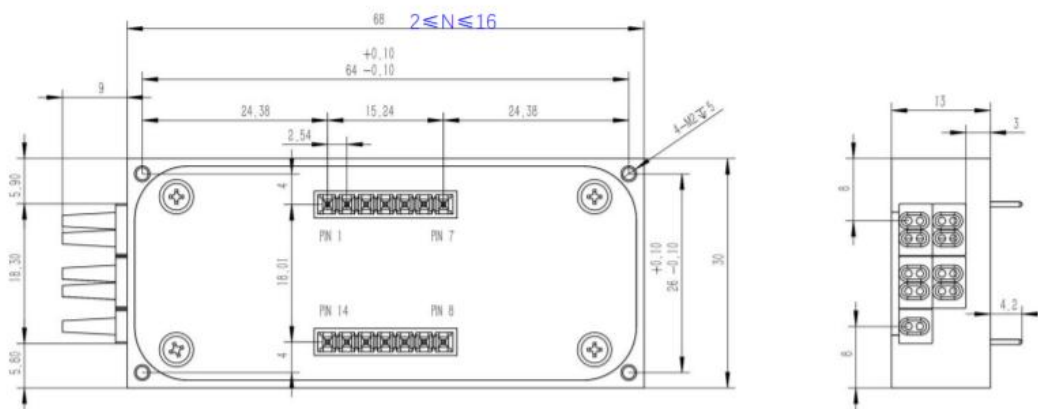
FUNCTIONAL BLOCK DIAGRAM



Drawing (80x60x16mm)



Box: 75x30x13mm



ELECTRONIC PIN DEFINITION (BOX 68x30x13mm)

PIN NO	Function	PIN No	Function
1	No Connect	8	Parallel D4 Input
2	5V(VCC)	9	Parallel D2 Input
3	Parallel Strobe/Enable	10	Done
4	Ground(GND)	11	Ground(GND)
5	Parallel D0 Input	12	Parallel D1 Input
6	UART RX Data	13	Parallel D3 Input
7	UART TX Data	14	Hardward Reset (reset)

ELECTRONIC PIN DEFINITION (BOX 80x60x16mm)

PIN NO	Function	PIN No	Function
1	Parallel D6 Input	9	UART RX Data
2	Parallel D5 Input	10	UART TX Data
3	Hardware Reset(/RESET)	11	Parallel D4 Input
4	Reserved	12	Parallel D3 Input
5	Ground(GND)	13	Parallel D2 Input
6	Ground(GND)	14	Parallel D1 Input
7	5-12V(VCC)	15	Parallel D0 Input
8	5-12V(VCC)	16	Parallel Strobe/Enable

Ordering information

PMM SW	Port	Wavelength	Pigtail Type	Fiber Type	Length	Connector	Package
	02=1x2 08=1x8 12=1x12 16=1x16	15=1550nm	1=900um loose tube	5=PM	7=0.75 m	NE=None FA=FC/APC FC=FC/UPC SA=SC/APC SC=SC/UPC LC=LC/UPC XX=Other	60=80x60 x16 30=75x30 x13