Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

## Contact us

# Integrated TAP Monitor Arrays w/ I²C Interface

## Product Description

Oplink's Integrated Tap Monitor Array (ITMA) w/ I²C interface is a compact, multi-channel power-monitoring module. Functions of power reading, alarm and threshold setting are provided at firmware command level thru I²C interface. There is no hardware design, firmware programming or PD calibration work for user anymore, which greatly relieves user from heavy work load of design and manufacturing and provides great cost saving.

Oplink can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.
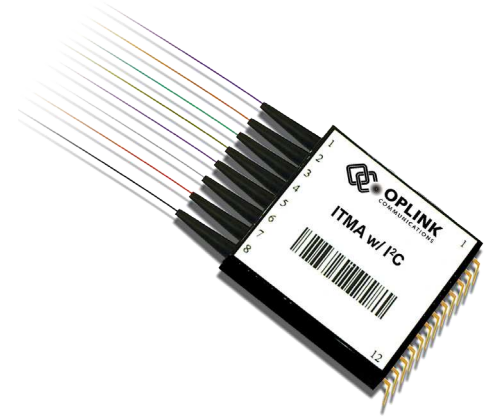
## Performance Specification

| Parameters | | | Specification | | Unit |
|---|---|---|---|---|---|
| Operating Wavelength Range | | | 1525 ~ 1610 | | nm |
| Through | Insertion Loss | 2% | ≤ 0.4 | | dB |
| | | 5% | ≤ 0.6 | | |
| | | 10% | ≤ 0.9 | | |
| | Polarization Dependent Loss | | ≤ 0.1 | | dB |
| | Return Loss | | > 45 | | dB |
| Tapped Monitoring | Power monitoring accuracy (@25℃ 1550nm, normal input power) | | ± 0.5 | | dB |
| Conditions | Input Optical Power | | - 30 to +10 | | dBm |
| | Operating Temperature Range (<90%RH, Non-condensing) | | -5 | +70 | ℃ |
| | Storage Temperature Range (<90%RH, Non-condensing) | | -40 | +85 | ℃ |
| Fiber Type | | | SMF-28 | | |

*Notes :*
*\* Within λOp, TOp, All SOP, exclude connector*

## Features

◈ I²C interface
◈ Wide dynamic range
◈ High accuracy
◈ Low IL and wide wavelength range

## Applications

◈ EDFA and Raman amplifiers
◈ Optical protection
◈ ROADM
◈ Instrumentation

## Electrical Pin Out

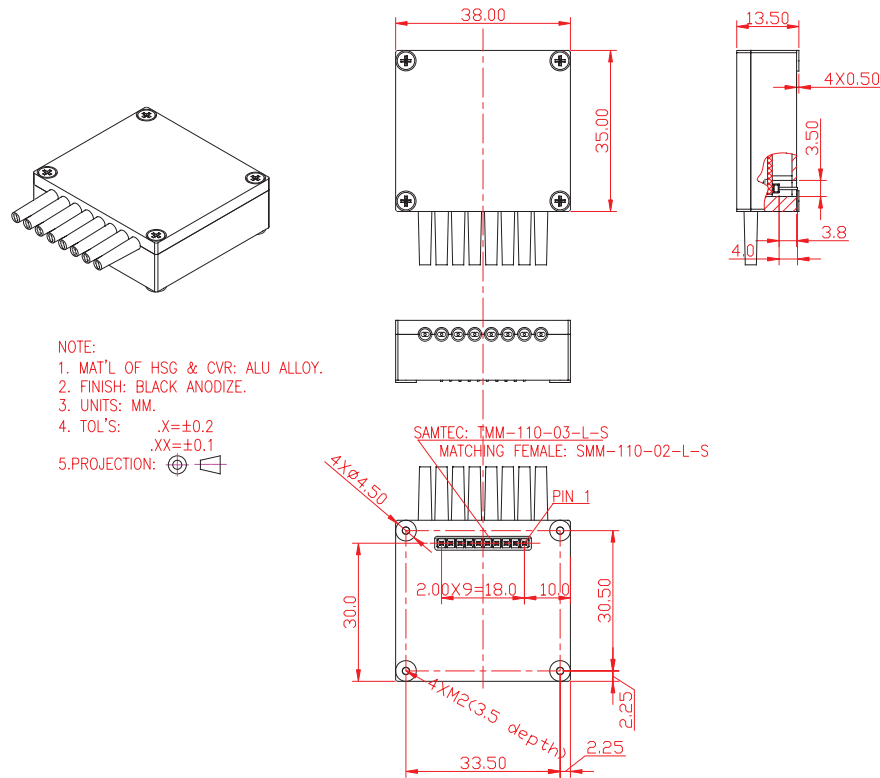| Pin # | I/O | Name | Description |
|---|---|---|---|
| 1 | I | VCC | 4.75~5.25V, Power(max 0.3A) |
| 2 | I | GND | Ground |
| 3 | I | A0 | Slave I²C address offset 0 (3.3V LVTTL) |
| 4 | I | A1 | Slave I²C address offset 1 (3.3V LVTTL) |
| 5 | I | A2 | Slave I²C address offset 2 (3.3V LVTTL) |
| 6 | I | A3 | Slave I²C  address offset 3 (3.3V LVTTL) |
| 7 | I | A4 | Slave I²C  address offset 4 (3.3V LVTTL) |
| 8 | I/O | SCL | I²C Clock (LVTTL), with no Pull-up & Pull-down  Resistor  in module |
| 9 | I/O | SDA | I²C Data (LVTTL), with no Pull-up & Pull-down  Resistor  in module |
| 10 | I | RESET | HW Reset, Active low(LVTTL) |

**OPLINK**

## Mechanical Drawing / Package Dimensions   (dimension in mm)

NOTE:
1. MAT'L OF HSG & CVR: ALU ALLOY.
2. FINISH: BLACK ANODIZE.
3. UNITS: MM.
4. TOL'S:      .X=±0.2
              .XX=±0.1
5.PROJECTION:

38.00
35.00
13.50
4X0.50
3.50
3.8
4.0

SAMTEC: TMM−110−03−L−S
MATCHING FEMALE: SMM−110−02−L−S

4XØ4.50
PIN 1
2.00X9=18.0    10.0
30.0
30.50
4XM2(3.5 depth)
2.25
2.25
33.50

## Ordering Information

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

ITMA  [0]  [8]  [ ]  [ ]  [E]  [C]  [M]  [D]  [ ]  [ ]  [ ]

**No. of Channel**
8 channels = 08

**Tap Ratio**
2/98 = 02
5/95 = 05
10/90 = 10

**Wavelength**
1525~1610 = E

**Fiber Length**
0.5meter = H
1.0meter = 1
1.5meter = 5
2.0meter = 2

**Fiber Type**
250µm bare fiber = 1
900µm loose tube = 2
Ribbon fiber = 3

**Connector Type**
None = 1
FC/PC = 2
FC/SPC = 3
FC/APC = 4
SC/PC = 5
SC/SPC = 6
SC/APC = 7
ST = 8
LC/PC = 9
MU = A
LC/APC = B
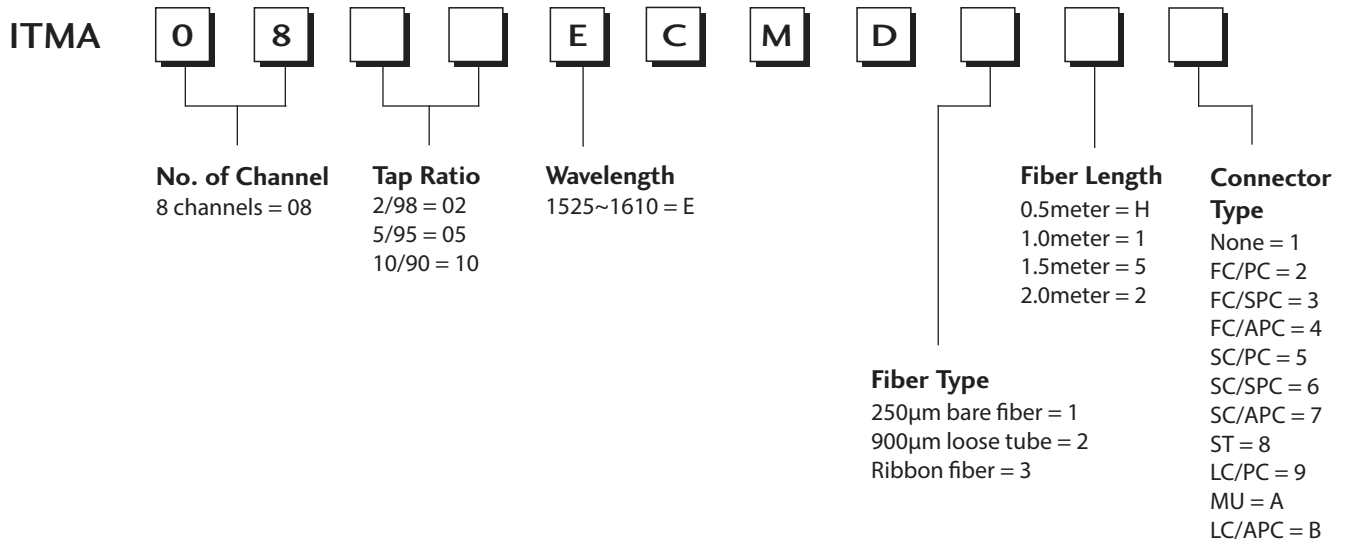
* The tolerance of fiber length is +/-0.1m.
* 1 meter is standard. The lead time for special fiber length will be longer.

Product Lines:  ❖  Mux/Demux  ❖  Switching/Routing  ❖  Coupling/Splitting  ❖  Monitoring/Conditioning  ❖  Amplification  ❖  Interconnect  ❖  Transmission  ❖  HFC/RoF Subsystem