

# PRODUCT BRIEF



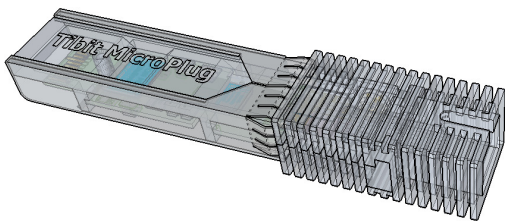
## TIBIT MICROPLUG

VIRTUALIZING NETWORKS

# TIBIT EPON 10G SFP+ OLT

### FEATURES

- 10G OPTICAL TRANSCEIVER WITH EMBEDDED ETHERNET-TO-PON OLT MAC BRIDGE
- HOT-PLUGGABLE SFP+ FOOTPRINT
- SUPPORTS SYMMETRIC (10G/10G) **AND** ASYMMETRIC (10G/1G) RATES IN TDM MODE
- COMPLIANT WITH IEEE802.3AV, SIEPON AND DPoE SPECIFICATIONS
- IN-BAND MANAGEMENT VIA ETHERNET OAM
- IEEE AES AND CTC TRIPLE-CHURNING SECURITY
- IEEE802.1AS-TO-IEEE1588 TRANSPORT
- PR20+/PRX30 OPTICAL POWER BUDGET:
  - 1577NM EML DFB LASER (10G)
  - 1270..1310NM APD/TIA BURST RECEIVER (10G/1G)
- INTEGRATED DIGITAL DIAGNOSTICS AND MONITORING (SFF-8472)
- SINGLE FIBER SC RECEPTACLE
- SFI LOCAL INTERFACE
- ENHANCED JITTER PERFORMANCE
- LOW POWER
- COMMERCIAL AND ENHANCED TEMPERATURE



### OVERVIEW

TIBIT'S EPON OLT MICROPLUG IS A HOT-PLUGGABLE SFP+ OPTICAL TRANSCEIVER WITH A BUILT-IN 10G ETHERNET-TO-EPON OLT MAC BRIDGE. THE MAC ALLOWS CO-EXISTENCE BY OPERATING IN SYMMETRIC (10G UPSTREAM/10G DOWNSTREAM) AND ASYMMETRIC (10G DOWNSTREAM/1G UPSTREAM) TDM MODE.

THIS 10G EPON OLT PLUGS INTO LOW-COST ETHERNET SWITCHES OR OTHER ETHERNET-ENABLED NETWORKING EQUIPMENT WITH SFP+ SOCKETS INSTANTANEOUSLY ENABLING THEM TO BE PART OF A 10G EPON NETWORK.

THE SFP+ OLT IS WELL SUITED FOR SOFTWARE DEFINED NETWORKING (SDN) AND NETWORK FUNCTION VIRTUALIZATION (NFV) BY ENABLING VIRTUAL OLT (VOLT) OR DISTRIBUTED OLT.

IT ENABLES CABLE MSOs TO TRANSFORM THEIR ANALOG HFC NETWORKS TO FULLY DIGITAL, HIGH BANDWIDTH NETWORKS. IT CONNECTS MULTIPLE ETHERNET NETWORKS IN THE HEAD-END, HUB-SITE, FIBER NODE, ON THE POLE, OR MULTI-DWELLING UNIT (MDU) BASEMENT WHEN DEPLOYED AS AN ETHERNET ACCESS BRIDGE.

THE SFP+ OLT MICROPLUG ALLOWS AN OPERATOR TO CREATE AN OLT SOLUTION AT REMOTE LOCATIONS WITHOUT ENVIRONMENTALLY CONTROLLED CABINETS. THIS APPROACH SIGNIFICANTLY LOWERS CAPEX/OPEX COSTS.

THE TECHNOLOGY REQUIRES LESS SPACE AND POWER THAN ANY OTHER PRODUCT ON THE MARKET.

### APPLICATIONS

- PON OLT CONNECTIVITY FOR ETHERNET SWITCH PORTS
- OUTSIDE PLANT PON ACCESS BRIDGE CONNECTIVITY
- CABLE MSO CCAP PON CONNECTIVITY
- REMOTE DOCSIS PHY
- WIRELESS BACKHAUL
- MDU-LOCATED PON BRIDGE
- HIGH-DENSITY PON AGGREGATION
- DATA CENTER PON

### TIBIT COMMUNICATIONS, INC.

1 WILLOWBROOK COURT, SUITE 150  
PETALUMA, CA 94954  
PHONE: 707-486-6170

[WWW.TIBITCOMMUNICATIONS.COM](http://WWW.TIBITCOMMUNICATIONS.COM)

Part Number	Link Budget	Case Temp
TPEL-34T3021S-5CA0	PR30/PRX30	0..70C
TPEL-34T3021S-5EA0	PR20/PRX20	-20..75C