

PRODUCT BRIEF



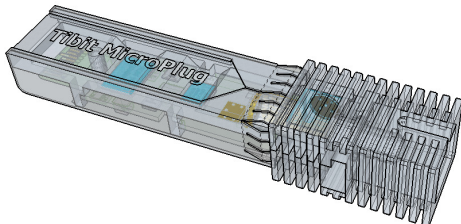
TIBIT MICROPLUG

VIRTUALIZING NETWORKS

TIBIT EPON 10G SFP+ ONU

FEATURES

- 10G OPTICAL TRANSCEIVER WITH EMBEDDED ETHERNET-TO-PON ONU MAC BRIDGE
- HOT-PLUGGABLE SFP/SFP+ FOOTPRINT
- SUPPORTS SYMMETRIC 10G/10G MODE OF OPERATION
- COMPLIANT WITH IEEE802.3AV, SIEPON AND DPoE SPECIFICATIONS
- IN-BAND MANAGEMENT VIA ETHERNET OAM
- IEEE AES AND CTC TRIPLE-CHURNING SECURITY
- IEEE1588-TO-IEEE802.1AS TRANSPORT
- PR20+/PRX30 OPTICAL POWER BUDGETS:
 - 1270NM DFB LASER (10G)
 - 1577NM APD/TIA BURST RECEIVER (10G)
- INTEGRATED DIGITAL DIAGNOSTICS AND MONITORING (SFF-8472)
- SINGLE FIBER SC RECEPTACLE
- MULTI-RATE LOCAL INTERFACE:
 - SFI (10G)
 - 1000BASE-X (1.25G)
- ENHANCED JITTER PERFORMANCE
- LOW POWER
- COMMERCIAL AND INDUSTRIAL TEMPERATURE



OVERVIEW

TIBIT'S EPON ONU MICROPLUG IS A HOT-PLUGGABLE SFP+ OPTICAL TRANSCEIVER WITH A BUILT-IN 10G ETHERNET-TO-EPON ONU MAC BRIDGE.

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

THE SFP+ ONU IS WELL SUITED FOR SOFTWARE DEFINED NETWORKING (SDN) AND NETWORK FUNCTION VIRTUALIZATION (NFV) WITH ITS IN-BAND ETHERNET OAM CAPABILITY.

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+ ONU MICROPLUG ALLOWS AN OPERATOR TO CREATE AN ONU SOLUTION AT REMOTE LOCATIONS WITHOUT ENVIRONMENTALLY CONTROLLED CABINETS. ALSO, ITS UNIQUE MULTI-RATE LOCAL INTERFACE ALLOWS CONNECTING LEGACY 1G SFP-BASED ETHERNET EQUIPMENT TO A 10G PON NETWORK. THIS APPROACH SIGNIFICANTLY LOWERS CAPEX/OPEX COSTS.

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

APPLICATIONS

- PON ONU CONNECTIVITY FOR CPE DEVICES
- 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

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Part Number	Link Budget	Case Temp
TPEN-33R3011S-5CA0	PR30	0..70C
TPEN-33R2011S-5IA0	PR20+	-40..85C