

## Technical Details SFP+ All-BM410-XGSPON



Installation	<ul style="list-style-type: none"><li>• SFP+ Interface</li></ul>
PON Interface	<ul style="list-style-type: none"><li>• Compliant with ITU-T G.9807 XGS-PON standards</li><li>• SFF type laser, SC/APC connector</li><li>• 10G bps Burst Mode Upstream Transmitter</li><li>• 10G bps Downstream Receiver</li><li>• Compliant with ITU-T G.9807 Class N1<ul style="list-style-type: none"><li>◦ APD receiver and DFB transmitter</li><li>◦ 4~+9dBm launch power, -28dBm sensitivity, and -9dBm overload</li></ul></li><li>• Wavelengths:<ul style="list-style-type: none"><li>◦ US 1260nm to 1280nm, DS 1575nm to 1580nm</li></ul></li><li>• Laser compliant with FCC 47 CFR Part 15, Class B, and FDA 21 CFR 1040.10 and 1040.11, Class I, ONT support Class C or Class C+ optics as an option</li></ul>
PON QoS	<ul style="list-style-type: none"><li>• Multiple T-CONTs per device</li><li>• Multiple GEM Ports per device</li><li>• Flexible mapping between GEM Ports and T- CONT</li><li>• Activation with automatic discovered SN and password in conformance with ITU-T G.984.3</li><li>• AES-128 Decryption with key generation and switching</li><li>• FEC (Forward Error Correction)</li><li>• DBA reporting by piggyback reports in the DBRu (mode 0)</li><li>• 802.1p mapper service profile on U/S</li><li>• Mapping of GEM Ports into a T-CONT with priority queues based scheduling</li><li>• Support Multicast GEM port and incident broadcast GEM port.</li></ul>
Ethernet Interface	<ul style="list-style-type: none"><li>• SFP+ based 10GBase-X GbE interface</li><li>• Hardware priority queues on the downstream direction in support of CoS</li><li>• 802.1D bridging</li><li>• Virtual switch based on 802.1q VLAN</li><li>• VLAN tagging/detagging</li><li>• VLAN stacking (Q-in-Q) and VLAN Translation</li><li>• IP ToS/DSCP to 802.1p mapping</li><li>• Class of Service based on VLAN-ID, 802.1p bit, ToS/DSCP</li><li>• Marking/remarking of 802.1p</li><li>• Broadcast/Multicast rate limiting</li></ul>
OAM	<ul style="list-style-type: none"><li>• Standard compliant OMCI (the embedded operations channel) interface as defined by ITU-T G.988</li><li>• Alarming and AVC report, performance monitoring</li><li>• Remotely software image download over OMCI, as well as activation and rebooting</li><li>• Hold two software sets with software image integrity checking and automatic rollback</li></ul>

Power Supply	<ul style="list-style-type: none"> <li>• Power Consumption: &lt; 2.8W</li> </ul>
Dimensions	<ul style="list-style-type: none"> <li>• 87.5 mm x 15.6 mm x 13.75 mm (L x W x D)</li> </ul>
Working Environment	<ul style="list-style-type: none"> <li>• case operating temperature: -40~+85 °C</li> <li>• Humidity: 5 ~ 95% relative humidity, non- condensed</li> </ul>
Safety & EMI	<ul style="list-style-type: none"> <li>• CE compliant</li> <li>• FCC/UL compliant</li> </ul>

