

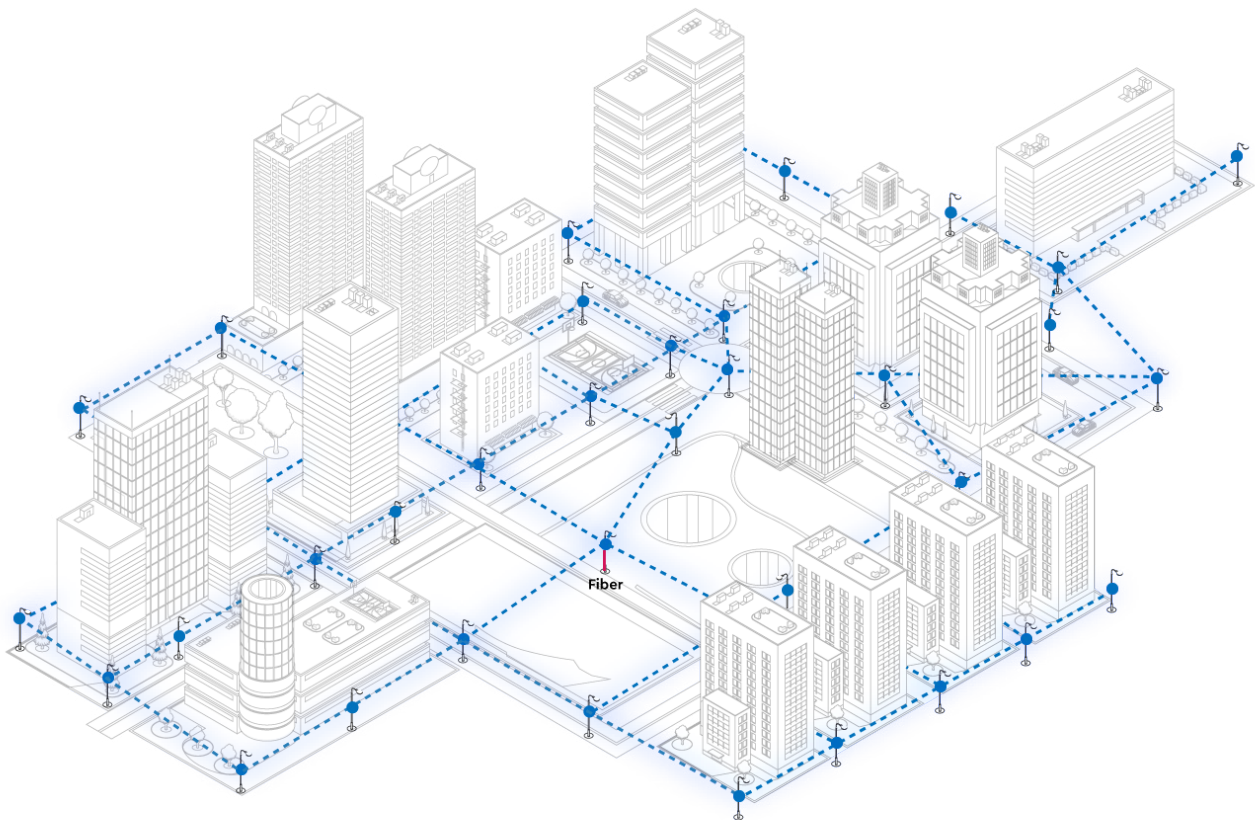
MLTG-360 (BR)

TERRAGRAPH DISTRIBUTION NODE

INTRODUCTION

MLTG-360 is a Terragraph™ certified distribution node (DN). MLTG-360 has 4 radios, supporting 360° coverage. Each radio of MLTG-360 equipped with a 256-element beamforming phased array antenna, supporting up to 3.8 Gbps aggregate throughput. In addition, MLTG-360 supports advanced mesh solution to establish a robust wireless network. Resilient mesh can be easily constructed between multiple MLTG-360 to construct the wireless network with high availability.

MLTG-360 provides fiber-like connectivity at a lower cost than fiber which is ideal for fixed wireless access, backhaul of Wi-Fi, or cellular networks.



● MLTG-360 Distribution Nodes

SPECIFICATIONS

PHYSICAL	
Power	<ul style="list-style-type: none"> Passive PoE (Injector Optional) 42.5V~59V DC terminal block
Dimensions (L x W x H)	<ul style="list-style-type: none"> 19.9 x 19.9 x 20.0 cm (7.83 x 7.83 x 7.87 in)
Weight	<ul style="list-style-type: none"> 3.9 kg (with mount)
Interfaces	<ul style="list-style-type: none"> 1x Gigabit Ethernet Port (PoE IN) 1x 10 Gigabit SFP+ port 4x Gigabit Ethernet Port (PoE OUT)*1 4x 60GHz Radio
Environmental Conditions	<ul style="list-style-type: none"> IP66 Rating Operating Temperature: -40°C (-40°F) to 55°C (131°F) Storage Temperature: -40°C (-40°F) to 85°C (185°F) Operating Humidity: 5% to 95% non-condensing
Antenna	<ul style="list-style-type: none"> Type: Built-in phased array antenna Gain: 28 dBi
Certifications	<ul style="list-style-type: none"> FCC/CE

RADIO	
Standards	<ul style="list-style-type: none"> 802.11ay
60GHz Radio	<ul style="list-style-type: none"> 4 x antenna tiles per radio 64 antenna elements for each antenna tile 90 degrees azimuth scan range: -45° to 45° 50 degrees elevation scan range: -25° to 25°
RF Output Power*2	<ul style="list-style-type: none"> Up to 43 dBm*3
Frequency Band	<ul style="list-style-type: none"> 57-64GHz
Modulation	<ul style="list-style-type: none"> BPSK, QPSK, 16QAM

PERFORMANCE	
Range	<ul style="list-style-type: none"> Up to 300m for MCS9 Up to 200m for MCS12
RF Performance (RX)	<ul style="list-style-type: none"> -66 dBm @ MCS9 -61 dBm @ MCS12

KEY FEATURES	
Support channel 1 to channel 3 (57-64GHz)	
Up to 3.8 Gbps bi-direction aggregate throughput for each radio	
Beamforming technology with phased array antenna for easy alignment	
Support TDMA-MAC for dynamic bandwidth allocation	
Support Over-the-Air (OTA) Security with AES128 encryption	
Mesh network with IPv6 routing	
Support QoS with 4 service classes	
Self-recovery & optimization	
IPv6 tunneling	
Support Layer 2 Forwarding	
<ul style="list-style-type: none"> Support VLAN transparent transmission Support management VLAN 	

*1: Only DC-in power supply can enable PoE out function
*2: RF output power here stands for EIRP with antenna gain
*3: Maximum power is limited by local regulatory requirements

ORDERING INFORMATION

PART NUMBER	DESCRIPTION	POWER CONSUMPTION
MLTG-360	♦ Terragraph DN with 4 radios, 360° coverage	♦ 75W max.
MLTG-360-3	♦ Terragraph DN with 3 radios, 270° coverage	♦ 60W max.
MLTG-360-2P	♦ Terragraph DN with 2 radios (in parallel), 180° coverage	♦ 45W max.
MLTG-360-2R	♦ Terragraph DN with 2 radios (at right angle), 180° coverage	♦ 45W max.
MLTG-360-1	♦ Terragraph DN with 1 radio, 90° coverage	♦ 30W max.

ACCESSORY

PART NUMBER	DESCRIPTION
J-Bracket	♦ MLTG-360 Bracket, Pole mount
PoE Injector	♦ 90W PoE Injector* ♦ 60W PoE Injector

*: Required by MLTG-360