Control up to 512
BSP-360 units

TAIWAN EXCELLENCE 2021

Off-grid 802.3at PoE+ Industrial Renewable Energy Solution

Intelligent Renewable Energy Management Controller

PLANET NMS-360 and NMS-360V-10/12 Renewable Energy Management Controllers can automatically detect up to 512 remote devices in ways that solar PV, battery and PoE port usage are recorded. Besides, traffic logs that are compliant with MQTT Protocol and PLANET Smart Discovery utility are managed. It thus enables administrator to centrally manage a network of up to 512 nodes from a central office, greatly boosting network and power management efficiency. With its user authentication management, the NMS-360 Series enhances data transmission security.
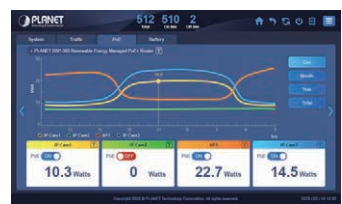
NMS-360 Series Intuitive Management Interface

Device List

Dashboard

Device Information

Industry-leading Integration of PoE Technology and Renewable Power System
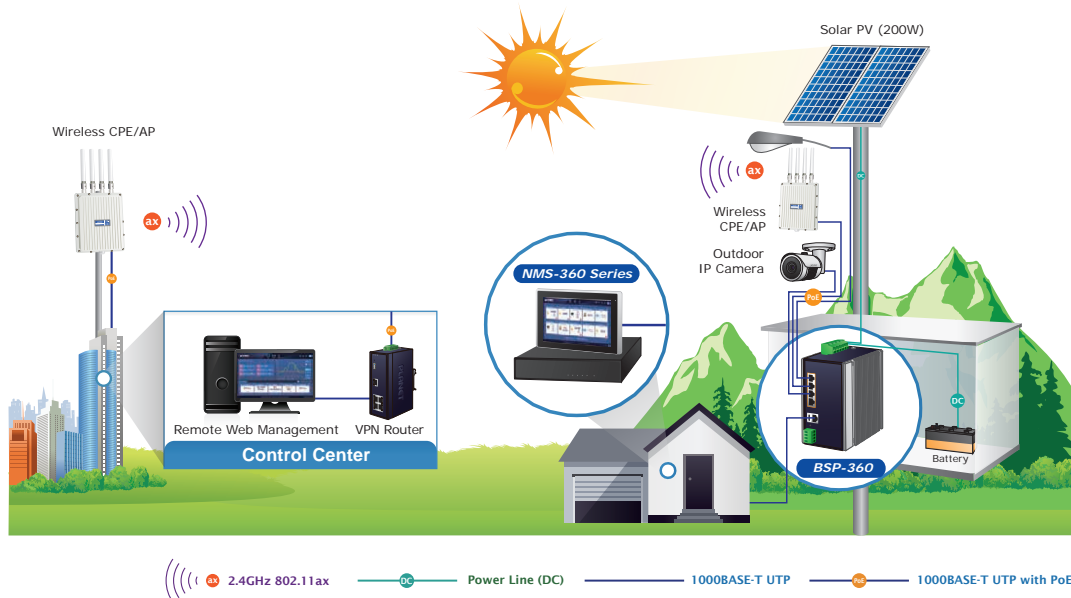
PLANET BSP-360 Industrial Renewable Energy 802.3at PoE+ Managed Switch/Router is designed for deploying surveillance and wireless networks in remote areas. Based on its green technology, the BSP-360 can be charged by renewable energy such as solar power, wind power or hydropower. This helps to economically power and manage IP cameras and APs, no matter how expansive the applications, such as dams, forests, deserts, national parks, animal protection areas and highways are.

Wireless Connection for Outdoor Long-range Application

PLANET NMS-360 Series Renewable Energy Management Controller allows users to remotely monitor the statuses of the BSP-360 in real time, including green power status, average power usage, instant PoE usage, and so on. Through remote web management, IT administrator at the headquarters will be able to monitor and control those remote powered devices powered by the BSP-360.

The BSP-360's built-in four 802.3at/802.3af PoE ports allow the administrator to flexibly install PoE wireless APs in remote areas, without worrying about locating extra electric outlets. When functioning with a pair of the wireless transmission units, the BSP-360 Renewable Energy PoE Switch/Router can be efficiently managed from a remote control center.

(((ax))) 2.4GHz 802.11ax	━━ DC ━━ Power Line (DC)	──────── 1000BASE-T UTP	──── PoE ──── 1000BASE-T UTP with PoE

Renewable Energy Management Controller

Model	NMS-360	NMS-360V-10	NMS-360V-12
Product Image	TAIWAN EXCELLENCE 2021	TAIWAN EXCELLENCE 2021 / INTERNATIONAL INNOVATION 2021 / BC AWARD	

Hardware Interface

	NMS-360	NMS-360V-10	NMS-360V-12
LCD	–	10" Touch Panel	12" Touch Panel
HDMI	–	1 x HDMI	1 x HDMI
GbE Ethernet	5 x GbE LAN RJ-45	2 x GbE LAN RJ-45	2 x GbE LAN RJ-45
USB	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
Serial	One RJ45 Console port	–	–
Watt	60W power adaptor (Level 6)	10": 23.7W	12": 29W

Software Feature

Number of Managed Devices (BSP-360)	512	512	512
Number of IP cameras	2,048	2,048	2,048

- Dashboard
- Setup Wizard
- Node Discovery
- Scalability
- Event Table
- Alarm System
- Site Map
- User Control
- Remote PoE Control
- Device Provisioning
- App-like Device Viewing
- Backup/Restoration/Read
- User Account Management

Network Services

DDNS	Supports PLANET DDNS/Easy DDNS
DHCP	Built-in DHCP Server for auto IP assignment to APs
Management	SSL; Web browser (Chrome is recommended)
	SNMP v1, v2c, v3
Discovery	Supports SNMP, ONVIF and PLANET Smart Discovery

Standards Conformance

Regulatory Compliance	CE, FCC
Standards Compliance	IEEE 802.3 10BASE-T
	IEEE 802.3u 100BASE-TX
	IEEE 802.3ab Gigabit 1000BASE-T

Renewable Energy PoE Switch/Router

Model	BSP-360
Product Image	TAIWAN EXCELLENCE 2017

LAN	10/100/1000	5
PoE	802.3at	4
PoE Budget		120 watts
PSE Type		End-span
PoE Power Pin		1/2(+), 3/6 (-)
PoE Power Voltage		51V DC
Management		Web/SNMP/MQTT
System Voltage/ Battery Requirement		24V DC
Power IN		Solar or turbines 24~45V DC
Max. Charge Current		10A (40V 10A, 400W)
Battery Type		Lithium/Lead Battery
Features		* 24V DC, 2A output load * Battery current status * Low voltage protection & alert * PoE schedule and management

Note:
Check the total power consumption of your device and the sunshine duration of your area from weather bureau for a proper PV. Improper PV could shorten the battery life or provide insufficient power to Renewable Energy PoE Switch/Router.