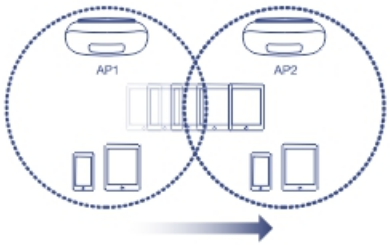
N300 Wireless Controller Kit

TEW-755AP2KAC (v1.0R)

- Centralized AP management
- Includes two wireless N300 access points with PoE injectors
- Wireless controller with five gigabit ports
- Manages up to 128 wireless access points
- Compatible with TEW-755AP, TEW-821DAP, and TEW-825DAP*
- Supports IEEE 802.11k radio resource management and 802.11r fast roaming
- Captive portal for hotspot applications
- Client and SSID bandwidth management
- Upload floor plans to create WAP Maps™ for a visual overview of each access point's location

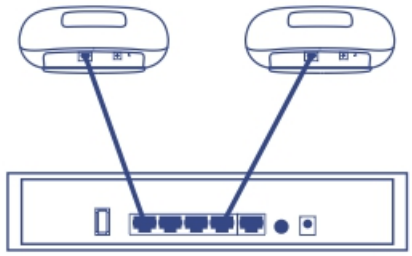
TRENDnet's N300 Wireless Controller Kit, model TEW-755AP2KAC, is designed to simplify management and setup processes for your access points. This new controller kit features seamless WiFi roaming, helping your devices stay connected when transitioning from one access point to another within the network. Fast BSS Transition, or fast roaming (802.11r) ensures optimal roaming conditions for your mobile WiFi clients.

TRENDnet's controller kit includes two wireless N300 access points with PoE injectors, and a wireless controller. This kit allows you to easily setup and manage access points across your network from a centralized interface. Simultaneously manage up to 128 access points, perform batch firmware upgrades, and monitor network connection status.



Seamless WiFi Roaming

802.11k provides a more efficient WiFi roaming environment by intelligently managing neighboring APs and passing mobile clients off to the next best access point; 802.11r and Opportunistic Key Caching (OKC) preauthenticates those WiFi clients with neighboring APs making for a fast and seamless transition.

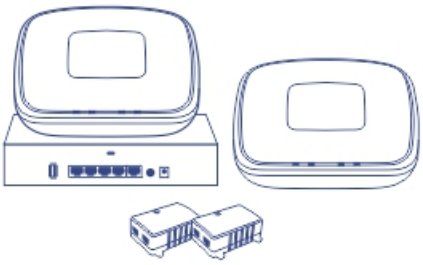


Complete Wireless Controller Kit

This complete controller kit includes two wireless N300 access points with PoE injectors and our wireless hardware controller.

Captive Portal

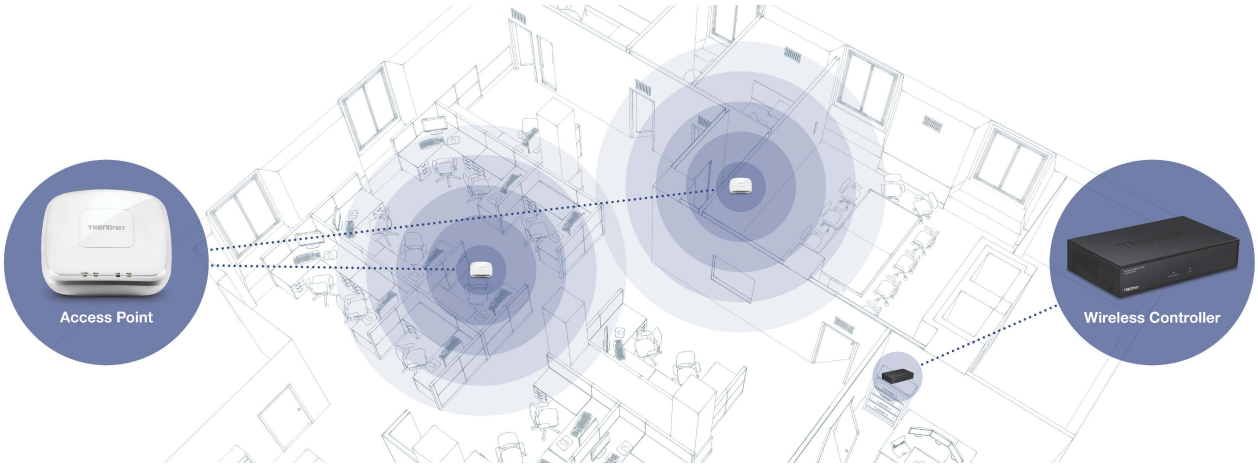
Create a customized web portal for users to authenticate using unique user names and passwords. Ideal for hotels, cafes, and businesses that want to provide public WiFi and manage wireless usage.



Centralized AP Management

Easily manage up to 128 access points across your network. Reduce AP deployment time by creating group profiles to provision multiple access points simultaneously.

Networking Solution



Wireless Controller

Centralized AP Management
Easily manage up to 128 access points across your network

Intelligent Radio Resource Management
802.11k provides a more efficient WiFi roaming environment by intelligently managing neighboring APs and passing mobile clients off to the next best access point.

Seamless WiFi Roaming
802.11r and Opportunistic Key Caching (OKC) preauthenticates those WiFi clients with neighboring APs making for a fast and seamless transition.

Captive Portal
Create a customized web portal for users to authenticate using unique user names and passwords.

Access Point Monitoring
Monitor each access point and connection status of network devices

WAP (Wireless Access Point) Maps
Upload floor plans to create WAP Maps™ for a visual overview of each access point's location

Batch Firmware Upgrades
Simultaneously upgrade firmware on multiple access points

Rack Mount Design
Fits standard 19" 1U rack (brackets included)

N300 PoE Access Point

Power over Ethernet
Saves installation time and costs with gigabit PoE support

WiFi N300
Ceiling-mount access point delivers WiFi N300 speeds

Wireless Coverage
Extended wireless coverage with MIMO antenna technology

Multiple SSIDs
Create up to 8 SSIDs

Mounting Plate
Use provided mounting plate for wall or ceiling installations

Specifications

Wireless Controller

Standards
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab

Device Interface
- 5 x Gigabit ports
- 1 x USB port
- On / Off Power button
- LED indicators
- Reset button

Management
- HTTP Web based GUI
- Local or online Firmware upgrade
- Internal log
- Configuration Backup / Restore
- NTP

Access Point Management
- Manage up to 128 access points
- IP address, gateway, and DNS settings
- SSID / Network name
- Wireless channel
- Wireless encryption: WEP, WPA / WPA2-Personal, WPA / WPA2-Enterprise
- 802.11 mode
- Channel width
- Transmit power
- SSID broadcast
- Bandwidth control (download limit per SSID & client, upload limit per client)
- Set RSSI scanning / threshold
- Seamless WiFi roaming using 802.11r and OKC (opportunistic key caching) protocols
- 802.11k radio resource management
- Band steering
- Access point / client statistics monitoring
- Batch configuration deployment
- Batch firmware upgrade deployment
- Captive portal
- Client blacklist
- 802.1Q VLAN
- Create multiple access point groups for management flexibility
- Upload custom floor plans using WAP Maps™

Access Point Compatibility
- TEW-755AP (Firmware Version: 1.03 or above)
- TEW-821DAP (Firmware Version: 1.05 or above)
- TEW-825DAP (Firmware Version: 1.01 or above)

Power
- Input: 100 – 240 V AC, 50/60 Hz
- Output: 12 V DC, 1 A external power adapter
- Consumption: 12 W (max.)

Operating Temperature
- 0 – 40°C (32 – 104°F)

Operating Humidity
- Max. 90% non-condensing

Dimensions
- 215 x 130 x 44.45 mm (8.27 x 6.3 x 1.73 in.)
- Rack mountable 1U height

Weight
- 68 g (1.5 lbs.)

Certifications
- CE
- FCC

N300 PoE Access Point

Standards
- IEEE 802.1Q
- IEEE 802.3
- IEEE 802.3u
- IEEE 802.3x
- IEEE 802.3ab
- IEEE 802.3af
- IEEE 802.11b
- IEEE 802.11g
- IEEE 802.11n (up to 300 Mbps)

Device Interface
- 1 x PoE Gigabit LAN port
- Power port (optional non-PoE installation)
- Reset button
- LED indicators
- Mounting plate

Special Features
- WiFi traffic shaping
- 802.1Q VLAN assignment per SSID
- IPv6 support (Link-Local, Static IPv6, Auto-Configuration (SLAAC / DHCPv6)
- Multi-Language interface, English, French, Spanish, German, Russian
- LEDs on/off
- Captive Portal (External Coovachilli server authentication)
- Internal Captive Portal (Local user account authentication and customizable portal page)
- 802.11k radio resource management
- RSSI Scanner (Client signal strength and tolerance)

Operation Modes
- Access Point
- Client
- WDS AP
- WDS Bridge
- WDS Station
- Repeater

Management / Monitoring
- Web based management
- SNMP v1/v3
- STP
- Event logging
- Ping test
- Traceroute
- CLI

Access Control
- Wireless encryption: WEP, WPA / WPA2-PSK, WPA / WPA2-RADIUS
- MAC filter
- Maximum client limit

QoS
- WMM
- Traffic shaping per SSID

SSID
- Up to 8 SSIDs per access point

Frequency
- 2.4 GHz: 2.412 - 2.472 GHz

Wireless Channels
- 2.4 GHz: FCC: 1-11, ETSI: 1 – 13

Modulation
- DBPSK / DQPSK / CCK for DSSS technique
- BPSK / QPSK / 16-QAM / 64-QAM for OFDM technique

Antenna Gain
- 2.4 GHz: 2 x 4 dBi

Wireless Output Power / Receiving Sensitivity
- 802.11b: FCC: 23 dBm (Max.), CE: 10 dBm (Max.) / -83 dBm (typical) @ 11 Mbps
- 802.11g: 19 dBm (Max.), CE: 12 dBm (Max.) / -65 dBm (typical) @ 54 Mbps
- 802.11n: FCC: 19 dBm (Max.), CE: 12 dBm (Max.) / -64 dBm (typical) @ 300 Mbps

Power
- 12 V DC / 1 A or PoE, consumption: 9.6 Watts Max.

Operating Temperature
- 0 – 40 °C (32 – 104 °F)

Operating Humidity
- Max. 95 % non-condensing

Dimensions
- 187 x 187 x 46 mm (7.3 x 7.3 x 1.8 in.) per access point

Weight
- 402 g (14.2 oz.) per access point

Certifications
- CE
- FCC
- IC

Warranty
- 3 year limited

Package Contents
- 1 x TEW-WLC100 wireless LAN controller
- 2 x TEW-755AP N300 PoE access points
- 2 x TPE-113GI 802.3af Gigabit PoE injectors
- 2 x Network cables (1.5 m / 5 ft.)
- TEW-WLC100 power adapter (12 V DC, 1 A)
- Quick Installation Guide
- CD-ROM (User's Guide)
- Controller rack mount kit
- Access point mounting plates

*For wireless controller compatibility, access points must have the corresponding firmware versions listed below.

- TEW-755AP (Firmware Version: 1.03 or above)
- TEW-821DAP (Firmware Version: 1.05 or above)
- TEW-825DAP (Firmware Version: 1.01 or above)

**Maximum wireless signal rates are referenced from IEEE 802.11 theoretical specifications. Actual data throughput and coverage will vary depending on interference, network traffic, building materials and other conditions. For maximum performance of up to 300Mbps, use with a 300Mbps 802.11n wireless adapter.

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Updated: 2/24/2017