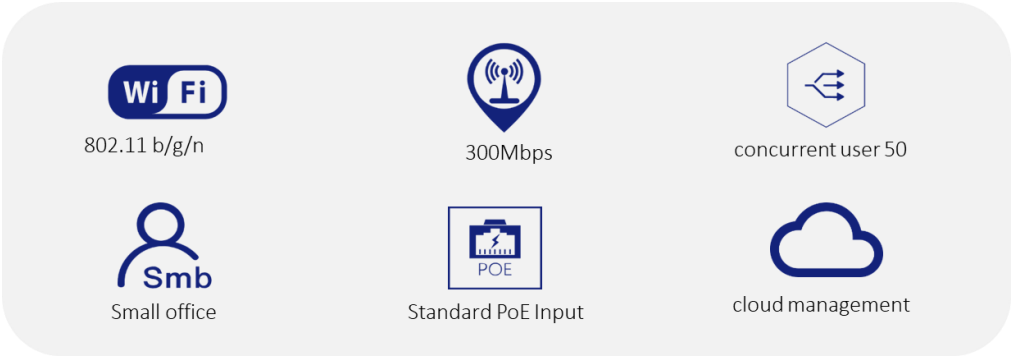
EAP280-E

SMB Smart Indoor 802.11n Single Band AP

Product Overview

EAP280-E is a new cost-effective enterprise Wi-Fi AP (Access Point) introduced by DCN. This AP supports 802.11n standard with Mega Ethernet up-stream connectivity. The EAP280-E works in 2.4G band and the maximum throughput can be up to 300Mbps.

EAP280-E provides versatile functionality of radio, mobile, security and traffic engineering etc., can work with physical or cloud AC (Access Controller) to provide enterprise, campus Wi-Fi network access as well as digital class room, commercial Wi-Fi or hotel Wi-Fi coverage etc. EAP280-E is a versatile high-performance Wi-Fi Access Point with de-signed-in cost reduction.



Key Features and Highlights

High-speed wireless broadband access
The EAP280-E supports 802.11b/g/n standard, operates in the 2.4 GHz band, and provides an access bandwidth up to 300Mbps.

Flexible mounting
EAP280-E can support wall mounting, ceiling mounting, you can deploy it according to the actual environment.

Cloud management
EAP280-E can operate with the DCN cloud platform seamlessly to provide a better cost-performance solution; it can help SMB customers enjoy the stable wireless connection at a lower cost.

Support WDS mode
EAP280-E can support WDS mode under both fit/fat AP mode. Use 2.4GHz and 5GHz to achieve wireless bridging function.

Dual-mode fit & fat
EAP280-E can work in fit or fat mode and can flexibly switch between the fit mode and the fat mode according to network planning requirements.

High-performance RF characteristics
The professional optimized design is employed for the RF module of the EAP280-E, so that a single antenna port supports 20 dB transmit power at all rate levels, thereby improving wireless coverage in high-rate access scenarios.

Product Specifications

Hardware Specifications

Item	EAP280-E
Dimension (L*W*D) (mm)	160 × 160 × 30
Service port	One 10/100M Base-T port
Console port (RJ-45)	N/A
Power input	802.3af or 48V DC adapter
Maximum power consumption	<10W
RF port	Built-in 2.4 GHz 4 dBi antenna
Working frequency band	802.11b/g/n: 2.4 GHz to 2.483 GHz
Modulation technology	OFDM:BPSK@6/9Mbps, PSK@12/18Mbps,16-QAM@24Mbps,64-QAM@48/54Mbps DSSS: DBPSK@1Mbps, DQPSK@2Mbps, CCK@5.5/11Mbps MIMO-OFDM: MCS 0-15
Transmit power	2.4G：23dBm (Per Chain) 5G：23dBm (Per Chain) (*Note：final output power comply with deployment regulation might be different*)
Power adjustment granularity	1 dBm
Working/Storage temperature	–0°C to +50°C –40°C to +70°C
Working/Storage RH	5% to 95% (non-condensing)
Protection level	IP31

Software Specifications

Item	Feature	EAP280-E
WLAN	**Product positioning**	Indoor single band
	Working frequency band	2.4 GHz
	Virtual AP (BSSID)	16
	Bandwidth performance	300Mbps
	Number of spatial streams	2.4G: 2

Item	Feature	EAP280-E
	Concurrent user	50
	Dynamic channel adjustment (DCA)	Yes
	Transmit power control (TPC)	Yes
	Blind area detection and repair	Yes
	SSID hiding	Yes
	RTS/CTS	Yes
	RF environment scanning	Yes
	Hybrid access	Yes
	Restriction on the number of access	Yes
	Link integrity check	Yes
	Intelligent control of terminals based	Yes
	High-density application optimization	Yes
11n enhance-ments	**40 MHz bundling**	Yes
	300 Mbps (PHY)	Yes
	Frame aggregation (A-MPDU)	Yes
	Maximum likelihood demodulation (MLD)	Yes
	Transmit beamforming (TxBF)	Yes
	Maximum ratio combining (MRC)	Yes
	Space-time block coding (STBC)	Yes
	Low-density parity-check code (LDPC)	Yes
Security	**Encryption**	64/128 WEP, TKIP, and CCMP encryption
	802.11i	Yes
	WAPI	Yes
	MAC address authentication	Yes
	LDAP authentication	Yes
	PEAP authentication	Yes
	WIDS/WIPS	Yes
	Protection against DoS attacks	Anti-DoS for wireless management packets
	Forwarding security	Frame filtering, white list, static blacklist, and dynamic blacklist
	User isolation	AP L2 forwarding suppression Isolation between client
	Periodic SSID enabling and disabling	Yes
	Access control of free resources	Yes
	Secure admission control of wireless terminals	Secure admission control of wireless terminals based on DCSM
	Wireless SAVI	Yes
	ACL	Access control of various data packets such as MAC, IPv4, and IPv6 packets

Item	Feature	EAP280-E
	Secure access control of APs	Secure access control of APs, such as MAC authentication, password authentication, or digital certificate authentication between an AP and an AC
Forwarding	**IP address setting**	Static IP address configuration or dynamic DHCP address allocation
	IPv6 forwarding	Yes
	IPv6 portal	Yes
	Local forwarding	Yes
	Multicast	IGMP snooping
	Roaming	Yes
	AP switching reference	Signal strength, bit error rate, RSSI, S/N, whether neighboring APs are normally operating, etc.
	WDS	Yes
QoS	**WMM**	Yes
	Priority mapping	Ethernet port 802.1P identification and marking Mapping from wireless priorities to wired priorities
	QoS policy mapping	Mapping of different SSIDs/VLANs to different QoS policies Mapping of data streams that match with different packet fields to different QoS policies
	L2-L4 packet filtering and flow classification	Yes: MAC, IPv4, and IPv6 packets
	Load balancing	Load balancing based on the number of users Load balancing based on user traffic Load balancing based on frequency bands
	Bandwidth limit	Bandwidth limit based on APs Bandwidth limit based on SSIDs Bandwidth limit based on terminals Bandwidth limit based on specific data streams
	Call admission control (CAC)	CAC based on the number of users
	Power saving mode	Yes
	Automatic emergency mechanism of APs	Yes
	Intelligent identification of terminals	Yes
	Multicast enhancement	Multicast to unicast
Management	**Network management**	Centralized management through an AC; both fit and fat modes
	Maintenance mode	Both local and remote maintenance
	Log function	Local logs, Syslog, and log file export
	Alarm	Yes
	Fault detection	Yes
	Statistics	Yes
	Switching between the fat and fit modes	An AP working in fit mode can switch to the fat mode through a wireless AC; An AP working in fat mode can switch to the fit mode through a local control port or Telnet.

Item	Feature	EAP280-E
	Remote probe analysis	Yes
	Dual-image (dual-OS) backup mechanism	Yes
	Watchdog	Yes

Typical Application

SMB office

- Access bandwidth 300Mbps
- 802.3af PoE
- Ceiling & wall mounting
- Concurrent user 50

Order Information

Product	Description
EAP280-E	DCN SMB Indoor Single Band AP, 802.11n (2.4GHz single band, 2*2, bandwidth 300Mbps, one 10/100MBase-T port for uplink, PoE or local 48V DC power, default no power adapter), could only be managed by DCN EAC series controller