

OUTDOOR WI-FI CPE

Model :TWI 1040 – PE



Telenet's TWI series of 802.11b/g/n compliant 2.4GHz Wireless LAN products feature 1x1 and 1x2 MIMO antennas. These come in various form factors – For Outdoor applications as a CPE, for outdoor application as an AP, for an indoor AP/Router. It can operate in Point-to-Point and Point-to-Multi-Point links. It can be configured in WDS mode as well. It can be available with Wireless WAN and Wireless LAN capabilities as well.

The TWI series has a high performance radio output and advanced networking and management capabilities. It can support NAT Routing, DHCP server, DHCP relay, DHCP with option 60, QoS, Security based on WPA2/WPA, Rate Limiting etc.

For different applications suitable antennas are provided with appropriate gains. It could have a single antenna for a 1x1, to a multipolarized antenna, and a MIMO antenna for 1x2.

The housing are built according to the applications, such as indoor housing and outdoor housing with ruggedized weatherproof design to meet various IP classes of protection

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GENERAL	
General Standard	IEEE 802.11b/g/n WLAN, IEEE 802.3/802.3u Ethernet
Ethernet Interface	Four auto MDX, auto sensing 10/100 Mbps, RJ45 port
Operation modes	1 Station/Station + WDS
CPE modes	Bridge / Routed

SYSTEM	
CPU	400 MHz
Flash / SDRAM	4 or 8 MB/16 MB

NETWORKING	
Networking	DHCP client, Configurable DHCP option 60
Test	PING function and Trace Route function
VLAN	VLAN Support; Management VLAN

ROUTER FEATURE	
Networking	NAT, DHCP Client/Server, DNS Proxy

RADIO	
Number of Radio	One 802.11 b/g/n Radio
Frequency Range	2400 - 2490Mhz
Channel Number	ETSI 1-13
Channel Bandwidth	Narrow Bandwidth 20 / 40 MHz Support ; Auto in STA mode
RF transmission power	20Dbm
Receiver Sensitivity	-94 dBm

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Antenna	
Internal Antenna gain	8dBi
Internal Antenna 3 dB Beam width	65 Degrees / 65 Degrees
Internal Antenna Polarization	Horizontal Polarization

MANAGEMENT	
NMS	Can be Integrated with Centralized Web Based Management System for Monitoring, Configuration and Software Upgrade
Management – Device	HTTP Web-based GUI, Telnet Management, button for factory reset, SSH
Firmware Upgrade	Automated centralized Firmware Upgrade & Web GUI manual upgrade ; Keep setting when Firmware Upgrade
LED indication	Power, Ethernet , Wireless signal strength

Ethernet Interface –Specification	
Ethernet Connectors	RJ-45 Jacks, 4 Ports 10/100 Base-TX with Auto-MDIX 4-Ports Poe (Data+Power IN)
Standards	IEEE Std.802.2 10BASE-T 10Mbps, Half/Full Duplex; IEEE Std.802.23u 100BASE-TX, 10/100Mbps, Half/Full Duplex; IEEE Std.802.3x Flow control and Back-pressure.
Surge Protection	Protection against initial ESD/EFT Transient Suppression
Protocols	CSMA/CD
Technology	Store & Forward switching architecture
Network Cable	2-Pair UTP/STP Cat 5 24AWG Cable
LED's	Link/Activity per Ethernet Port
Power Over Ethernet Injector: Power Supply (IN) for CPE.	Power over Ethernet 12V, 1A (12 Watts) on Spare pair to supply power to the CPE
No. of Ethernet Ports that can Power ON the CPE.	Anyone/All of the four LAN ports
Max Packet size supported	1536 bytes
Port Isolation	Using Port-based VLAN
Port Disable/Enable	Individual LAN ports can be enabled and disabled through Web

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SECURITY

Wireless Security	OPEN WPA2 - PSK WPA2-AES with 802.1x 802.1x Supplicant EAP-TTLS MSCHAPV2, EAP-TTLS support
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POWER

Power options	100-270 V 50/60 Hz, Indian PIN type Powering through POE DC power
Power Method	Passive Power over Ethernet
Max Power Consumption	4 Watts
Power Supply	12V, 1A (12 Watts). Power Supply and POE injector included

Physical

Physical Dimension/ Form factor	Compact and easily mountable on house window
Enclosure Size	175 x 168 x 52 mm
Weight	<500 g
Operating temperature	(0 to 50 deg cent) Outdoor Temperature
Humidity	5 to 90% Condensing

Environment Protections

Protection	Dust Protected , Protected from Spray Water up to 60 Degree from V
Enclosure Characteristics	Outdoor UV Stabilized Plastic

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