CONNECT
YOUR
WORLD

TELSTRA
MOBILE
NETWORK

POWERED BY NEXT**G**®

TELSTRA OUTDOOR GATEWAY

ONLY AVAILABLE ON THE TELSTRA NEXT G® NETWORK.

WHAT IS IT?

As the name suggests, the Telstra Outdoor Gateway is a robust modem router that sits on the outside of a premises and designed to withstand Australia's harsh climate. The device connects users to the 3G speeds and extensive coverage of Telstra's Next G® network and delivers high speed broadband to businesses wherever Next G® network coverage is available.

The device is an all-in-one solution that incorporates high performance 3G and Wi-Fi antennas, a modem router and also includes an Indoor Gateway. The Telstra Outdoor Gateway creates a powerful indoor and outdoor Wi-Fi network that connects up to 16 devices simultaneously such as your notebooks, tablets and smart phones. It can also connect up to 3 wired devices through an Ethernet connection.

WHO IS IT FOR?

Businesses in locations without fixed ADSL, cable or fibre broadband connectivity resort to either dial up internet, satellite or mobile broadband to keep their businesses connected. Depending on the location of each business, this can cause frustrations surrounding frequent drop outs, slow internet connectivity and complicated external antenna set ups.

TOGCB08

WHO CAN BENEFIT FROM IT?

Target market examples:
- Homes and businesses with poor inbuilding coverage
- Mining sites and villages
- Temporary or permanent office sites
- Locations without a fixed (ADSL/Cable) line connection
- Boats and marinas
- Farms who require outdoor Wi-Fi connectivity
- Deployments in harsh physical environments
- Outdoor monitoring and surveillance setups
- Hostels / shared living quarters
- Camp sites and caravan parks
- Service stations / rest stops

01 Small and home businesses that rely on the internet can increase the speed and reliability of their connection in low signal areas.
02 Properties such as farms and vineyards can get outdoor Wi-Fi connectivity.
03 The Telstra Outdoor Gateway has been designed to withstand exposure to the elements.
04 Works on the Next G® network for a true wireless connection.

IDENTIFY YOUR TELSTRA OUTDOOR GATEWAY CUSTOMER

JUST LIKE MATCHING SHOES TO HANDBAGS, IT'S IMPORTANT TO MATCH THE OUTDOOR GATEWAY WITH THE RIGHT CUSTOMER

WHO IS THE TELSTRA OUTDOOR GATEWAY FOR?

Businesses without a fixed broadband connection

Businesses with a slow internet connection e.g. on the fringe of either our ADSL or Next G coverage areas

Businesses who require outdoor Wi-Fi connectivity

Businesses stuck on dial-up that want to upgrade to high speed mobile broadband

Businesses with a temporary set up

Businesses that require a Wi-Fi internet solution

### WHAT ARE THE UNIQUE SELLING POINTS?

Fast mobile broadband – Connects Telstra customers in locations without fixed broadband, stuck on dial-up or in low indoor signal strength locations

Experience to share - Creates a powerful and secure Ethernet and indoor & outdoor Wi-Fi network to connect multiple Wi-Fi and wired Ethernet devices simultaneously

Simple installation – The Outdoor Gateway features Power over Ethernet (PoE) cable. This connects both power and data to the gateway eliminating the need for 2 cables

Outdoor rated – Withstands dust, rain and extreme temperatures

Permanent and temporary mobile broadband – Broadband for any application – for permanent, temporary (e.g. temporary construction office) or mobile applications (e.g. boat)

Next G® Tower
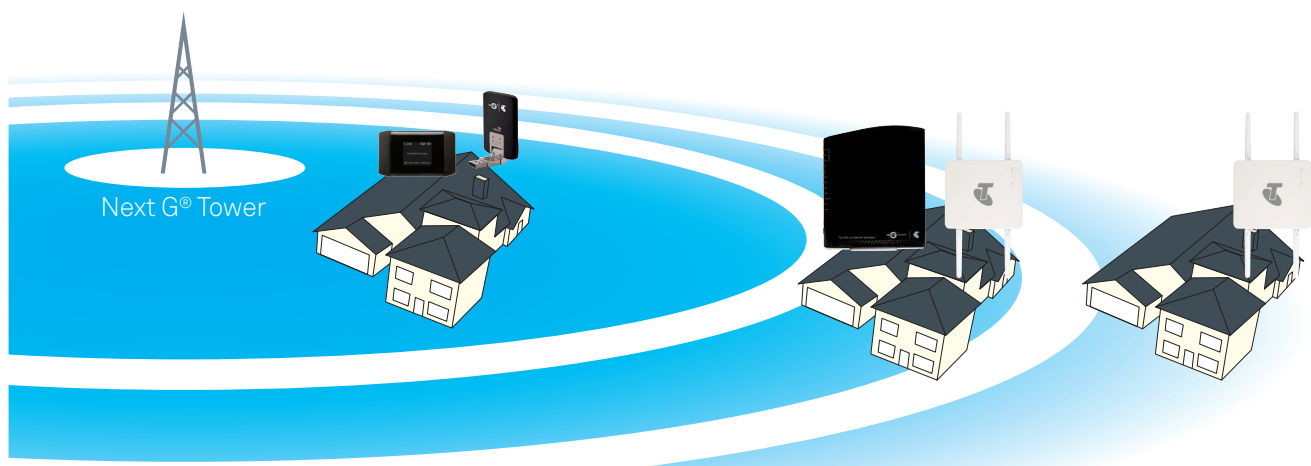
OUTDOOR GATEWAY VS EXTERNAL ANTENNA

External antennas are the current solution for properties in remote locations or in weak signal strength locations. The Telstra Outdoor Gateway has been designed to not only deliver the performance capabilities of an external antenna, but it has the following advantages over an external antenna solution:

TELSTRA OUTDOOR GATEWAY	EXTERNAL YAGI ANTENNA
The Telstra Outdoor Gateway is an all-in-one solution incorporating antennas, modem and Wi-Fi in one device.	Two separate components to make up the one solution – an external Yagi antenna and indoor 3G gateway.
The Telstra Outdoor Gateway has omni-directional antennas. This means you do not need an RF specialist to install the gateway and have it directed to the closest Next G tower making it simple to set up.	Yagi antennas are directional antennas and generally need to be installed by an RF technician.

OUTDOOR GATEWAY VS ULTIMATE GATEWAY

Both the Telstra Outdoor Gateway and Telstra Ultimate Gateway are designed to provide high speed mobile broadband to businesses when in Next G coverage areas. The fundamental difference between the two products is that the Ultimate Gateway requires good indoor Next G coverage whereas the Outdoor Gateway only requires Next G coverage outside to work. The Telstra Outdoor Gateway with powerful external 3G and Wi-Fi antennas will provide businesses with a solid broadband connection and therefore outperforms the Telstra Ultimate Gateway in these low indoor signal strength locations.

Each Gateway provides connectivity to the Telstra Next G network and provides an Ethernet and Wi-Fi network.
The differences between the two Gateway's are as follows:
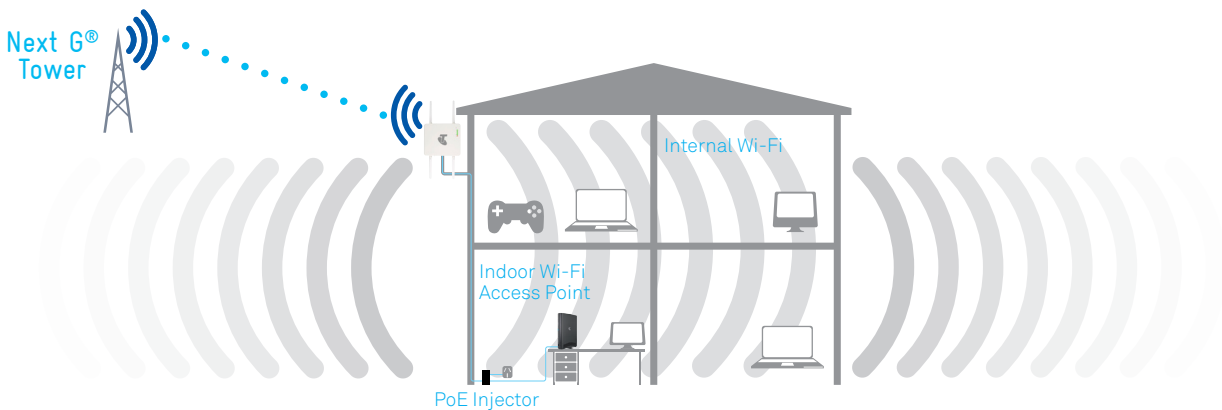
TELSTRA OUTDOOR GATEWAY KEY DIFFERENTIATORS

• Ideal for locations that are in fringe locations
• Provides 3 powerful Wi-Fi networks
• Eliminates the requirement for an external antenna installation
• Provides an Outdoor Wi-Fi network (up to 100m)
• Connects up to 3 wired devices
• Connects up to 16 Wi-Fi devices simultaneously
• Includes an indoor Gateway

Installation
Your Telstra Outdoor Gateway is designed to be mounted on the outside of your premises. The installation may require the use of a power tool, a ladder and relevant hardware tools for a successful installation. If the customer does not have experience with these types of installations, we recommend the customer uses a handy man for the installation.

The installation incorporates:

• The set up and connection of the Telstra Outdoor Gateway
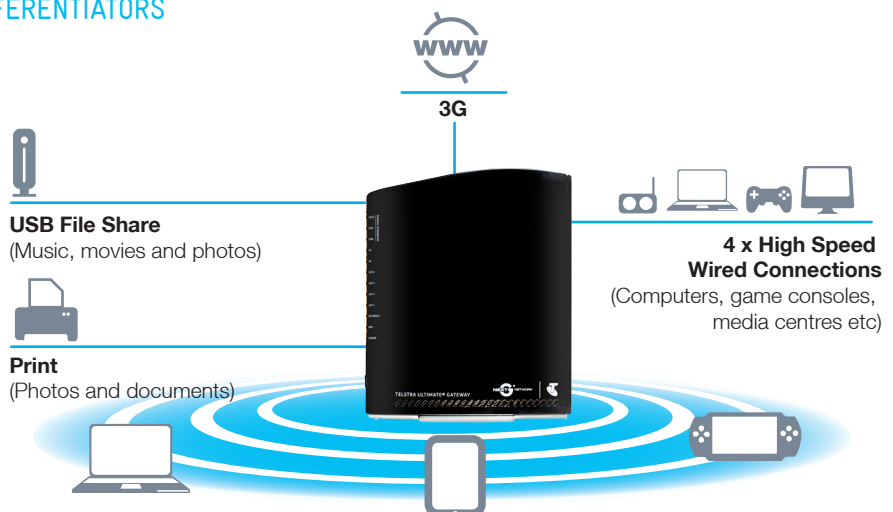• The physical installation onto a property

Next G® Tower

Internal Wi-Fi

Indoor Wi-Fi Access Point

PoE Injector

TELSTRA ULTIMATE GATEWAY KEY DIFFERENTIATORS

• Can be easily moved around – ideal for mobile businesses
• Ideal for locations in good reach of a Next G tower
• An instant network can be established
• Connects up to 4 wired devices
• Connects up to 16 Wi-Fi devices simultaneously

Installation
The Telstra Ultimate Gateway is a plug and play gateway that enables businesses to create an instant Wi-Fi and Ethernet network anywhere there is Next G coverage.

www

3G

USB File Share
(Music, movies and photos)

Print
(Photos and documents)

4 x High Speed Wired Connections
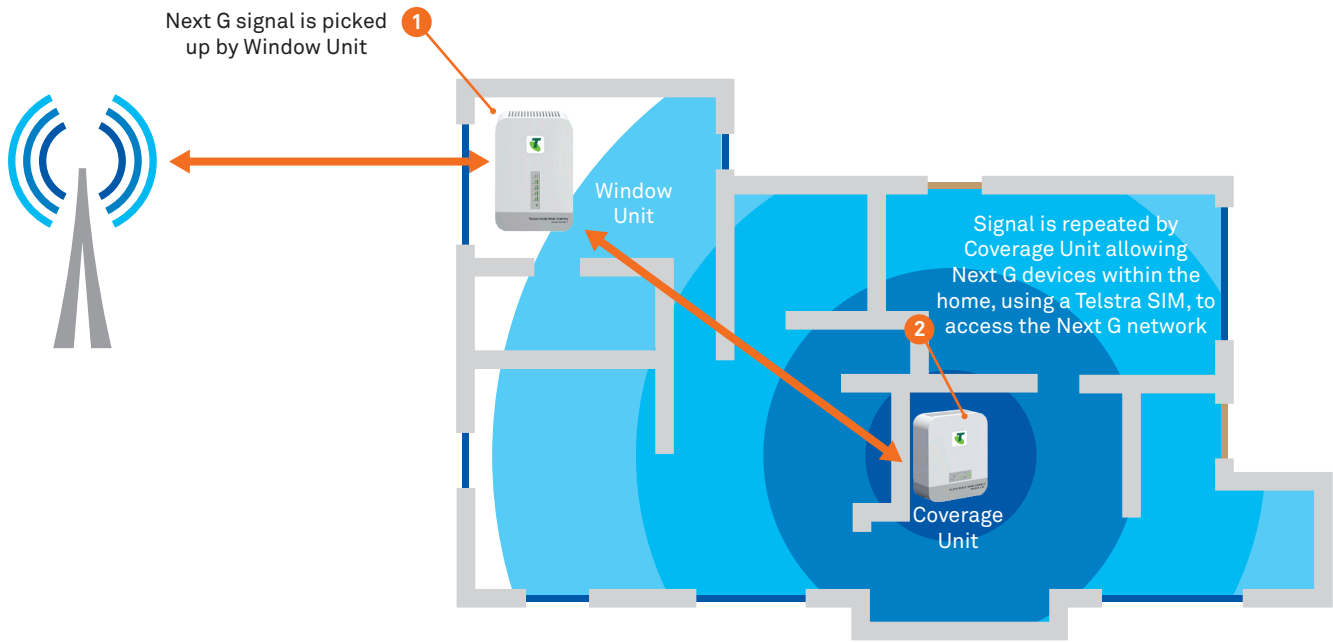(Computers, game consoles, media centres etc)

OUTDOOR GATEWAY VS SMART ANTENNA

While both devices have been designed for locations with low indoor Next G signal strength the Telstra Outdoor Gateway and Telstra Mobile Smart Antenna are two different products with two different functionalities.
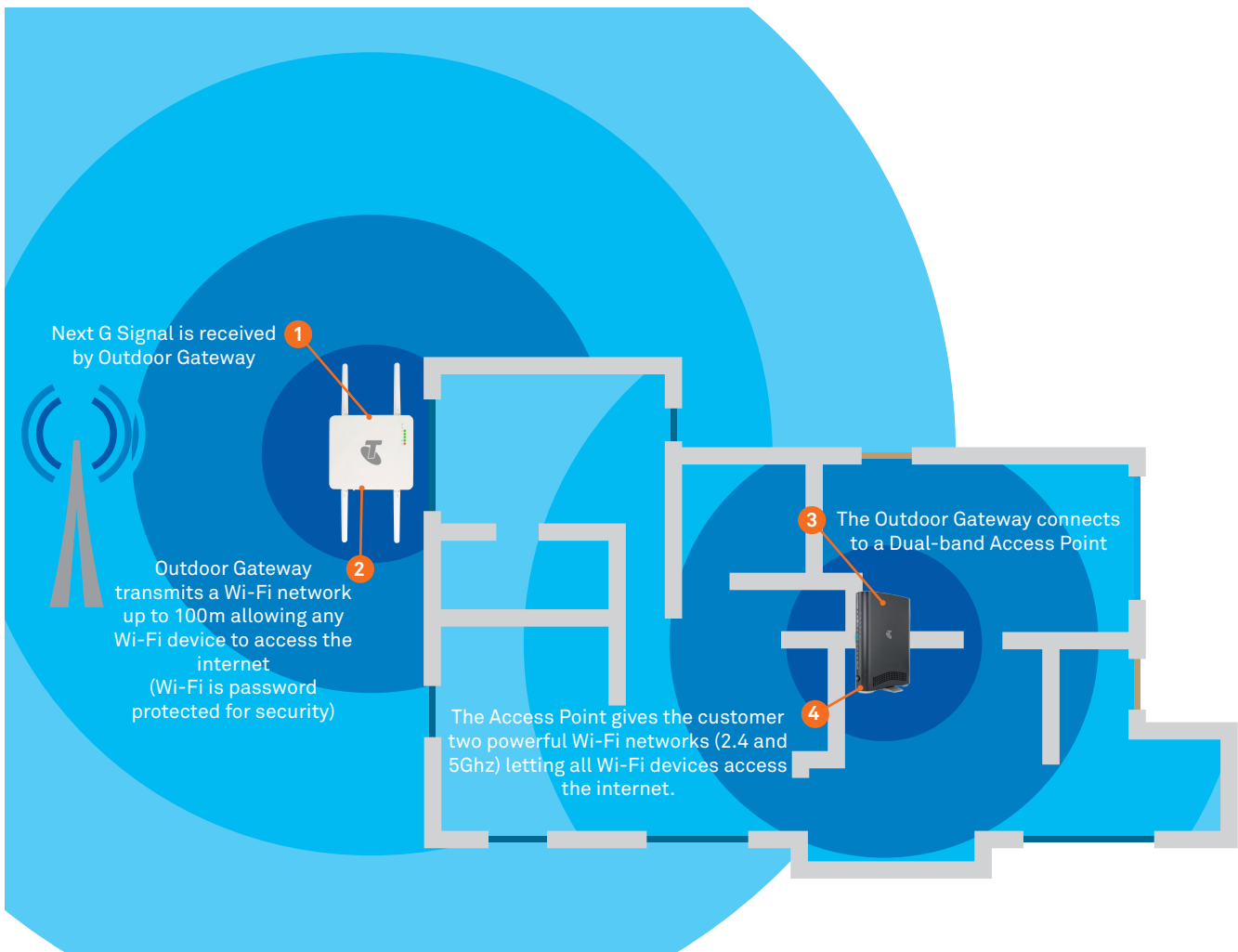
TELSTRA OUTDOOR GATEWAY	TELSTRA SMART ANTENNA
Telstra Outdoor Gateway is a fixed wireless gateway that takes one Next G network wireless broadband connection and shares that connection with up to 16 wireless devices through local Wi-Fi and Ethernet networks.	Telstra Mobile Smart Antenna is designed to help increase indoor Next G coverage so mobile broadband devices such as mobile phones, smart phones, Wi-Fi Hotspots and USB modems can experience a more seamless mobile broadband connection.
Is a modem router - takes one connection, and shares that connection with multiple devices	Works like a booster
Each device is connected via Wi-Fi or Ethernet to the Outdoor Gateway – not directly to the Next G network	Each device is connected directly to the Next G network

TELSTRA SMART ANTENNA

Next G signal is picked up by Window Unit **1**

Window Unit

Signal is repeated by Coverage Unit allowing Next G devices within the home, using a Telstra SIM, to access the Next G network **2**

Coverage Unit

TELSTRA OUTDOOR GATEWAY

Next G Signal is received by Outdoor Gateway **1**

Outdoor Gateway transmits a Wi-Fi network up to 100m allowing any Wi-Fi device to access the internet (Wi-Fi is password protected for security) **2**

The Outdoor Gateway connects to a Dual-band Access Point **3**

The Access Point gives the customer two powerful Wi-Fi networks (2.4 and 5Ghz) letting all Wi-Fi devices access the internet. **4**

PICKING THE BEST SPOT FOR INSTALLATION

IT'S LIKE THAT OLD SAYING, LOCATION, LOCATION, LOCATION.

The Telstra Outdoor Gateway features Omni Directional 3G antennas. This means it can be mounted on any side of a premises and it will connect to the Next G network when in coverage areas. It is however recommended that the Gateway is mounted in an optimal position to ensure the device receives the strongest signal strength. If for example the closest or strongest signal Next G tower is positioned on the east side of the property, the user should mount the Gateway on the east side of their property.

If the installer is unsure of where the closest Next G tower is located, the signal strength LEDs on the gateway will show you which side of the property receives the strongest signal.

Good signal

Better signal

Next G® tower
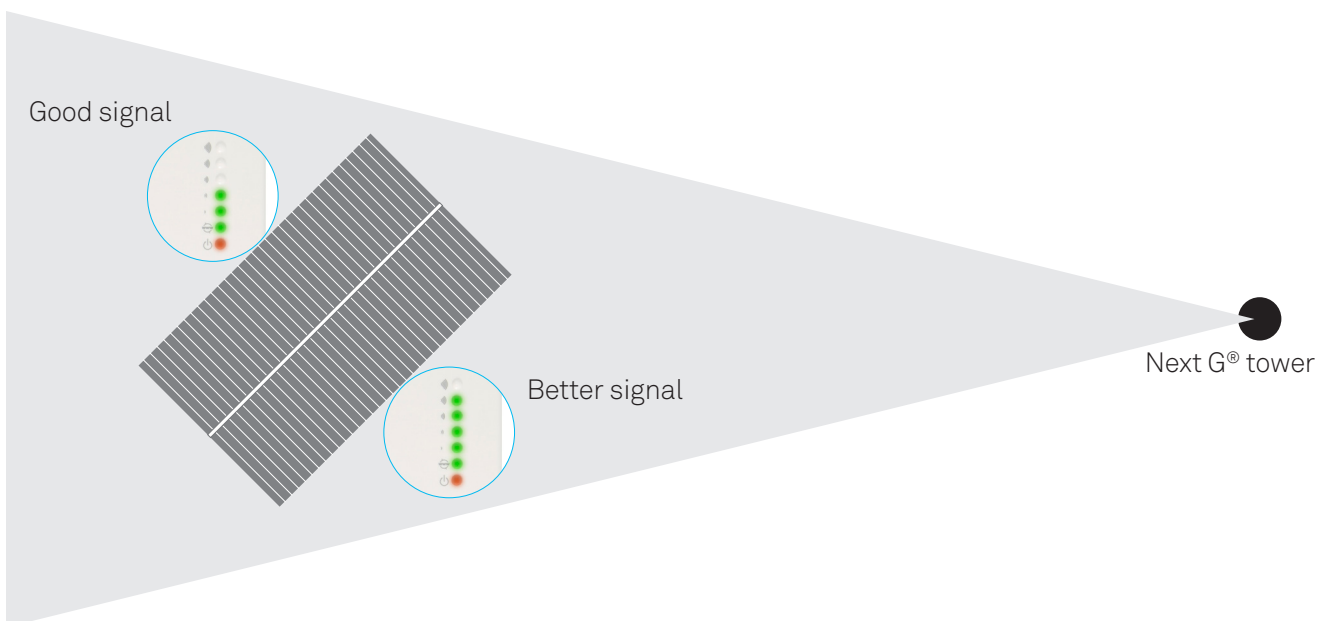
MOUNTING OPTIONS

The Telstra Outdoor Gateway comes with both a pole and wall mount kit, which allows users to either wall or pole mount the device to their property. The installation may require the use of a power tool, a ladder and relevant hardware tools for a successful installation. It is recommend that Telstra Outdoor Gateway customers contact their local Telstra dealer for installation advice or hire their own handy man to help mount the device to their property.

WALL MOUNTING
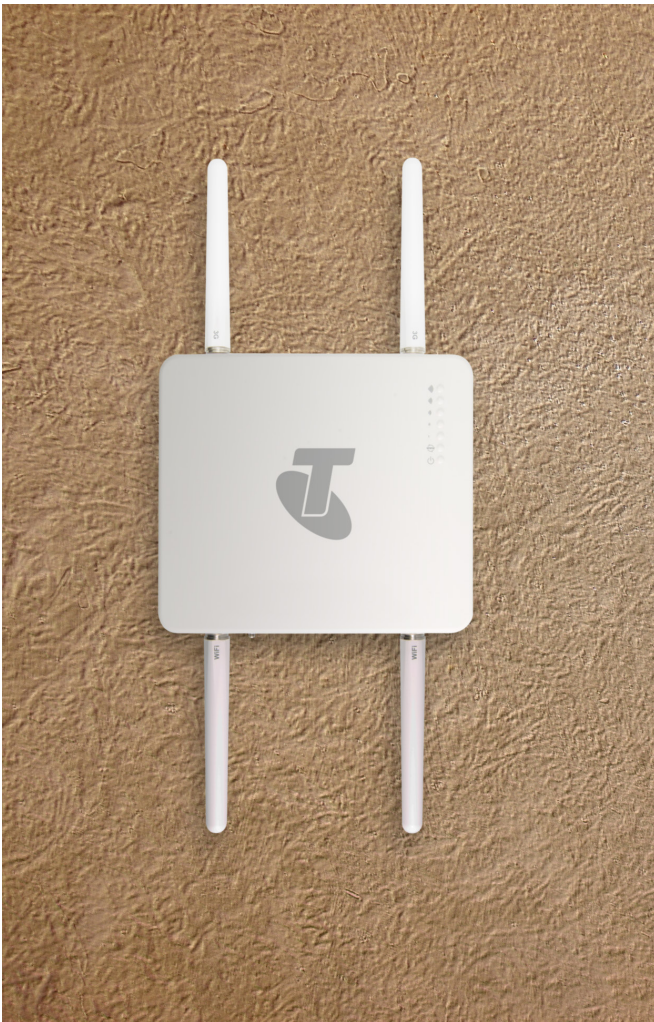
POLE MOUNTING

*Recommended for best results if you are unsure of which direction will give highest signal

MOBILE BROADBAND DEVICE POSITIONING

There are a number of mobile broadband devices available to Telstra businesses. The Telstra Outdoor Gateway is designed to provide businesses with a fixed wireless mobile broadband solution that delivers a solid broadband internet connection to ensure businesses can connect and be productive.

	USB MODEMS	WI-FI HOTSPOTS	USB GATEWAY	CRADLE + WI-FI HOTSPOT	EMBEDDED GATEWAY	OUTDOOR GATEWAY
Suitable Locations	• Metro • Regional with solid signal strength • Where mobility is required	• Metro • Regional with solid signal strength • Where mobility is required	• Metro • Regional with solid signal strength • Where in building coverage exists	• Metro • Regional with solid signal strength • Properties without fixed broadband • Where in building coverage exists	• Metro • Regional with solid signal strength • Properties without fixed broadband • Where in building coverage exists	• Regional properties located on the fringe of the network • Metro with low coverage • Properties without fixed broadband • Poor in building coverage, good outdoor coverage
Market	DINK / SINK	DINK / SINK	BUSINESS	DINK / SINK	Family & Business	Family & Business
Users	1 user	Up to 5 users	Up to 16 users	Up to 16 users	Up to 16 users	Up to 16 users
Additional Comments	• Secondary device to fixed broadband	• Secondary device to fixed broadband	• Dial-up replacement • Secondary device to fixed broadband • Without USB, the device cannot connect to broadband	• USB Modem • Without USB, the device cannot connect to broadband	• Dial-up replacement • Currently no embedded gateway for BigPond customers	
For optimal results	▂▃▄█ to ▂▃▄▅█	▂▃▄█ to ▂▃▄▅█	▂▃▄█ to ▂▃▄▅█	▂▃▄█ to ▂▃▄▅█	▂▃▄█ to ▂▃▄▅█	▂▃▄█ to ▂▃▄▅█

PRICING

You can get the device for $141 per month for 24months when you connect to a 15GB TMB Member plan (excess usage $0.10/MB)
(Minimum cost $3,377.76)

WI-FI
FAQS

THE TELSTRA OUTDOOR GATEWAY FEATURES BOTH INDOOR AND OUTDOOR WI-FI ACCESS, ALLOWING UP TO 16 DEVICES TO CONNECT TO UP TO 3 WI-FI NETWORKS SIMULTANEOUSLY.

Q: HOW MANY WI-FI NETWORKS DOES IT SUPPORT?

There are 3 Wi-Fi networks in total. The Outdoor Gateway provides 1 Wi-Fi network and the Indoor Gateway provides 2 Wi-Fi networks.

Q: HOW MANY DEVICES CAN CONNECT TO EACH NETWORK?

The technical specifications allow up to 16 devices can be connected. However, the Wi-Fi network performance can vary depending on distance from the Gateway(s), the type of network traffic and environmental conditions.

Q: CAN MULTIPLE DEVICES CONNECT TO EACH NETWORK SIMULTANEOUSLY?

Yes, multiple devices can all connect to each network at the same time. However the number of devices connecting simultaneously may affect throughput speed.

Q: IF I AM CONNECTED TO THE INDOOR WI-FI NETWORK AND WALK OUTSIDE DO I DISCONNECT?

This depends on the distance from your Indoor Gateway. If you take your device outside and are still in Wi-Fi range of your Indoor Gateway you will stay connected as long as you're in Wi-Fi range. Most modern devices, such as smartphones, tablets and notebooks, will remember "known" networks (those you have previously accessed) and will seamlessly switch to the network that provides the strongest signal.

Q: HOW TO I SWITCH BETWEEN MY INDOOR AND OUTDOOR WI-FI NETWORK?

When you scan for your available Wi-Fi networks, you should be able to see 3 Wi-Fi networks

- NetComm 46985
- 2.4GHz - Telstra 6598
- 5GHz - Telstra 5G 5698

You can simply connect to the network that gives you the Strongest signal.

Q: IS MY WI-FI CONNECTION SECURE?

Both the Outdoor and Indoor Gateway's feature the latest Wi-Fi security (WEP/WPA/WPA2 and 802.1x). Each Wi-Fi network also has a unique Wireless name and password to ensure Wi-Fi is kept completely secure for your business.
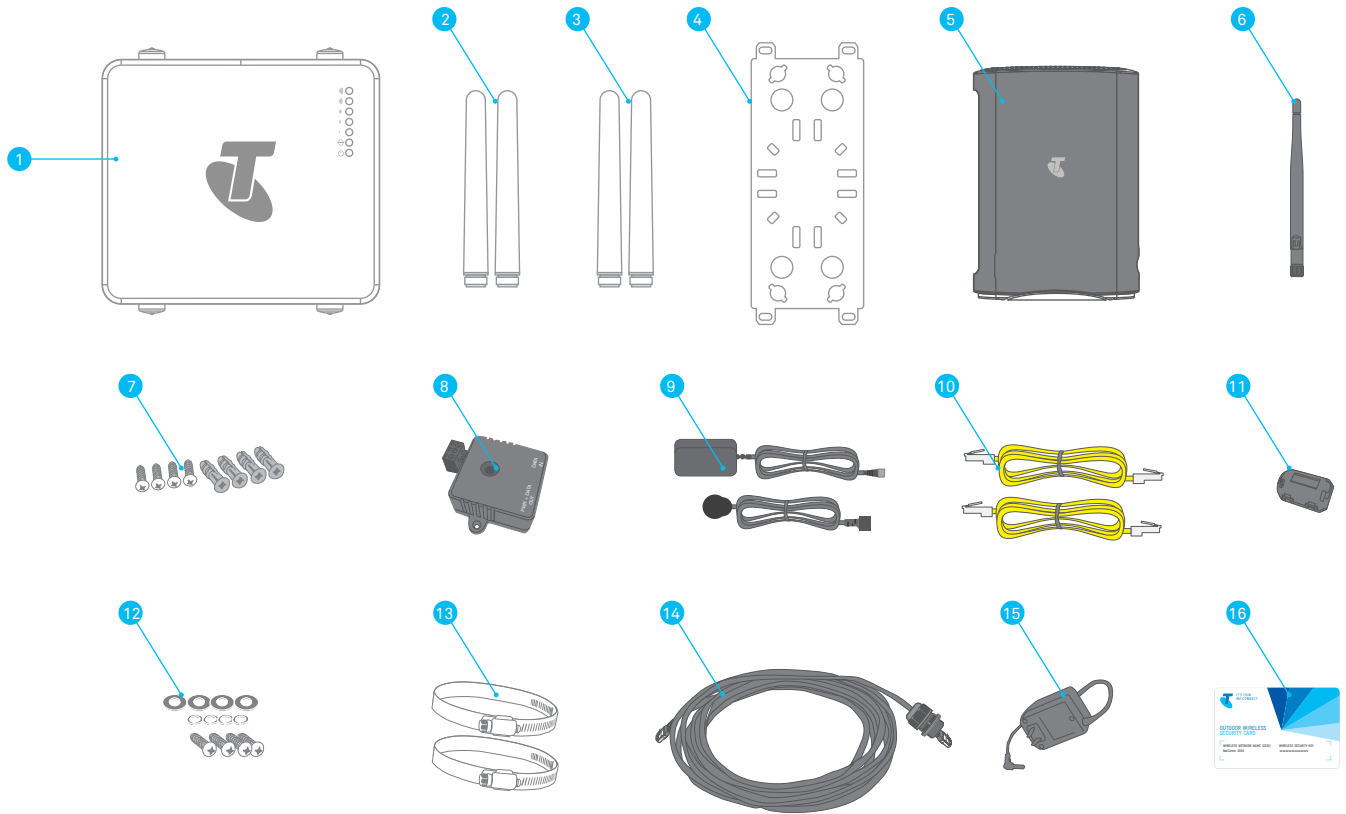
Q: HOW DO I KNOW WHICH WI-FI NETWORK TO CONNECT TO?

When you scan for your networks, choose the network that gives you the strongest signal. If your device is set up on each network, it may also choose the strongest Wi-Fi network to connect to automatically

Maximum wireless signal rate and coverage values are derived from IEEE Standard 802.11g specifications. Actual wireless speed and coverage are dependent on network and environmental conditions included but not limited to volume of network traffic, building materials and construction/layout.

External Wi-Fi (2.4Ghz)   Internal Wi-Fi (5Ghz)   Internal Wi-Fi (2.4Ghz)   External Wi-Fi (2.4Ghz)

PACKAGE CONTENTS

Before you get started, let's make sure all the parts are in the box

ITEM	DESCRIPTION	QTY
1	Telstra Outdoor Gateway	1
2	Wi-Fi Antennas (Type N)	2
3	3G Antennas (Type N)	2
4	Mounting bracket	1
5	Indoor Wi-Fi Access Point	1
6	Wi-Fi Antenna	1
7	Set of wall mounting screws (Diameter = 6mm, Length = 25mm)	4
8	Power over Ethernet Injector (STB-48V)	1
9	AC/DC Converter (ADP-48) with Power Cord	1
10	1.5m Cat 5e Ethernet cable	2
11	Ferrite Core	1
12	Set of Mounting screws (Diameter = 6mm, length = 14.85mm)	4
13	Hose clamps for pole mounting (1" to 3")	2
14	10m outdoor rated Cat 5e Ethernet cable with IP67 Water-proof Plug Cable Gland	1
15	Indoor Wi-Fi Access Point Power Supply	1
16	Wireless Security Card	1

ADDITIONAL INFORMATION

MINIMUM SYSTEM REQUIREMENTS

- Works with any Wi-Fi enabled device – Android™, iOS, MAC OS X, Windows® OS.
- Laptop or Desktop with Windows® 7 & 8 (32/64 bit), Windows Vista® (SP2,32/64 bit) XP (SP3 Media Centre Editions, 32/64 bit) or Apple® Mac compatible OS 10.4 and above is required for installation

THINGS YOU NEED TO KNOW:

Typical download speeds of 1.1-20Mbps in Capital CBDs and selected metropolitan and regional areas (covering 80% of the population). Outside these selected areas, the remaining metropolitan areas of all capitals cities and many other regional and rural locations support typical download speeds from 550kbps to 8Mbps. In other coverage areas, typical download speeds are from 550kbps to 3Mbps. Typical upload speeds are from 300kbps to 3Mbps in capital CBDs and selected regional areas. In other coverage areas, typical upload speeds are from 300kbps to1Mbps.

Actual speeds vary due to factors such as location and distance from the base station, distance from the gateway, local terrain, user numbers, hardware & software configuration and download source/upload configuration. Actual download speeds will be shared between users.

VISIT TELSTRA.COM/ MOBILEBBCOVERAGE FOR DETAILS OF COVERAGE LOCATIONS.

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Apple is a trade mark of Apple Inc.

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TECHNICAL SPECIFICATIONS

WAN INTERFACE
- DC-HSPA+ x 1
- Comply with the 3GPP release 8 UMTS specification
- Support dual band 850/2100 mHz (UTMS / HSPA+/DC-HSPA+)

MCU
- Atmel AT91SAM9G45 Microcontroller, ARM9-based 400MHz Processor

MEMORY
- 128MB DDR SDRAM, 256MB NAND Flash

OPERATING SYSTEM
- Embedded Linux 2.6

CELLULAR BANDS
- UMTS/HSDPA/HSUPA: 850/900/2100/1900 MHz
- GSM/GPRS/EDGE: 850/900/1800/1900 MHz

WIRELESS LAN
- IEEE 802.11b/g/n 2T2R
- Frequency: 2.4 ~ 2.438 GHz
- Ralink RT3072 Chipset
- Peak Data Rate: Max 300 Mbps (MIMO, WPA2)

WIRELESS SECURITY
- WEP 64-bit, WEP 128-bit, WPA, WPA2, WPA-PSK, WPA2-PSK, TKIP, AES

CONNECTIVITY
- 1x (RJ-45) Ethernet 10/100Base-TX Port with Auto MDIX
- 1x DC-in Port

ANTENNA INTERFACES
- 2x N-Type Cellular, 2x N-Type WLAN (MIMO)

SIM CARD READER
- Lockable Tray Reader, Push-Button-to-Release
- Mini USIM/SIM Format

LED INDICATORS
- Power, Tx/Rx Data Traffic, Signal Strength

ADMINISTRATION & CONFIGURATION
- Web-based User Interface (HTTP)
- Dual System Management
- SMS Client (Send/Receive)
- Advanced SMS Diagnostics and Command Execution
- Firmware Upgrade via LAN or Over-The-Air (FOTA)
- System Monitoring
- Diagnostic Log Viewer
- System Status and Security Logs
- NTP Server Support
- SNMP v1/v2
- MIB
- 1x Reset Button

REMOTE MANAGEMENT
- Web-based User Interface (HTTP), Telnet, SNMP v1/v2, TR-069 Client

LAN
- DHCP Server/Client/Relay, Static Route, UPnP

WAN
- WWAN (Cellular), PPPoE, PPP (PAP/CHAP)

ROUTING & POSITIONING
- Static, RIP (v1/v2), VRRP, Dynamic DNS, NAT, DMZ

FIREWALL & SECURITY
- SPI Firewall, Anti-DoS

VPN
- PPTP, GRE, OpenVPN

ENVIRONMENT
- Normal Operating Temperature: -25°C ~ +65°C
- Extended Operating Temperature: -25°C ~ +75°C (with Performance Deviations)
- Environmental Rating: IP-67 (sealed against water & dust)

POWER SUPPLY
- Power over Ethernet: 48 V DC
- DC In Port: 8 ~ 28 V optional with supply of external power supply

INPUT CURRENT
- Standby: 110 mA @ 12V DC
- 3G Active: 300 mA @ 12V DC
- Maximum: 560 mA @ 12V DC

DIMENSIONS & WEIGHT
- 255mm (L) x 240mm (W) x 80mm (D)
- 2345g (including mounting and antennas)

NOTES