



m2mone
a sierra wireless company

Connecting you to the Internet of Things

SIM cards, Data plans and Managed
Services for IoT and M2M devices.

Connecting Australia to the Internet of Things

M2M One are Australia's leading supplier of SIM Cards, Managed Data Plans and Custom IP Networking for Machine to Machine (M2M) and Internet of Things (IoT) devices.

Our goal is to help our customers and partners accelerate development and manage deployment of their connected fleet.

All of our services are backed by the industry leading CISCO Jasper online Control Centre and operate on Australia's largest mobile network offering the greatest level of population and land mass coverage available.

With M2M One you have unrestricted access to 3G, 4G/LTE, Cat-M1 & NB-IoT networks with no shaping, coverage limitations or permanent roaming blocks.

Why partner with M2M One?



No Contracts. No Minimums



Instant SIM Activation



Real-Time Data Reporting



No more Bill-Shock



Expert IoT Support

M2M Sim Cards



M2M One stock a wide variety of SIM Card form factors to make sure our customers have the perfect fit for their application.

Whatever your SIM requirements - let M2M One connect you to The Internet of Things.

	M2M Standard Form Factors			M2M Specialist Form Factors	
	M2M Standard SIM	M2M Micro SIM	M2M Nano SIM	M2m Industrial Strength SIM	M2m Solderable SIM Chip
Form Factor	2FF	3FF	4FF	2FF or 3FF	MFF2
Dimensions	25mm x 15mm	15mm x 12mm	12.3mm x 8.8mm	25mm x 15mm	6mm x 5mm
Environment	Normal Conditions	Normal Conditions	Normal Conditions	Extreme Conditions	Extreme Conditions
Operational Temperature	-25°C to +85°C	-25°C to +85°C	-25°C to +85°C	-40°C to +105°C	-40°C to +105°C
Anti-Corrosion	N/A	N/A	N/A	Yes	Yes
Endurance	Average 500,000 write/erase cycles	Average 500,000 write/erase cycles	Average 500,000 write/erase cycles	Average 500,000 write/erase cycles	Average 500,000 write/erase cycles
Data Retention Time	Average 5 to 7 Years	Average 5 to 7 Years	Average 5 to 7 Years	Average 10 Years	Average 10 Years
Flash Memory	64KB	64KB	64KB	64KB	64KB
Vibration Standard	N/A	N/A	N/A	Complies to ETSI TS 102.671	Complies to ETSI TS 102.671
Package	Plug-In Card (Uses SIM Tray)	Plug-In Card (Uses SIM Tray)	Plug-In Card (Uses SIM Tray)	Plug-In Card (Uses SIM Tray)	SON8/VQFN8 for automated assembly
Typical Application	Most M2M applications, including Vehicle Tracking, Vending & Payments	Small form factor M2M applications, including mHealth, GPS, Tablets & Dispatch Units.	Smallest form factor M2M applications, including Tablets, Mobile Payment & Terminals.	Industrial M2M applications, including smart metering, mining & remote applications.	Industrial M2M applications, including smart metering, mining & remote applications.
Price ex-GST	\$3.00	\$3.00	\$3.00	\$5.00	\$5.00 Minimum order of 500

M2M Data Plans



When you've selected a SIM card with the right form factor for your device, the next step is selecting a data plan that offers you flexibility and scalability with a price point that allows you to be competitive in your market.

M2M One offer data plans with no commitment, no contract and the ability to move between any plan in our portfolio at any point in the month.

Whatever your M2M Data requirements - let M2M One connect you to The Internet of Things.

M2M Group Data Plans (Flexible Pool)

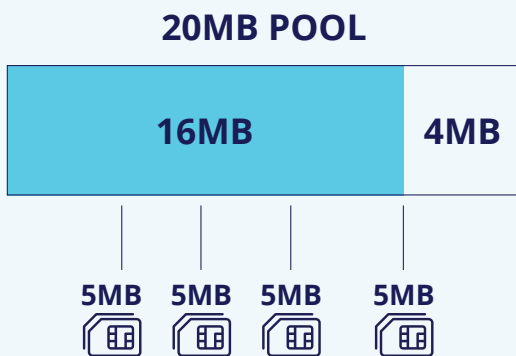
Added flexibility to maximize your devices data usage!

How does it work?

The group plan is the perfect option to keep a fixed monthly cost even with devices that have varying usage patterns.

With group data plans every SIM on the same plan type groups its data to create an effective "pool" of data across your fleet - for example 4 x 5MB SIM cards gives you a pool of 20MB.

If you exceed the limit of the pool you can move your SIMs to a larger plan for the remainder of the month and just pay the difference for the larger plan rather than pay excess usage.



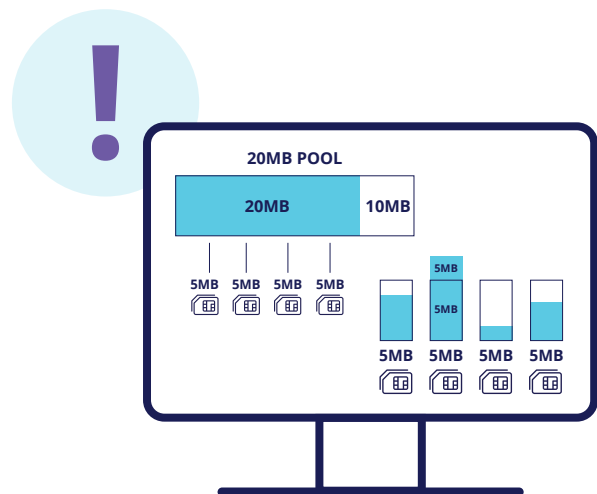
Smart data management

Never worry about excess usage again!

M2M One provide customers with a suite of tools to help manage and control data usage so you never have to worry about bill-shock again!

Our online platform enables you to set-up data thresholds that can either notify you or automatically suspend services that breach data limits.

Our dedicated team of account managers will also phone or email you as soon as your group data has exceeded its pooled allowance with a recommendation to remove or minimize any excess usage charges.



M2M Data Plans



NB-IoT SIM Cards and Data Plans

Connect your device to the largest IoT network in Australia with M2M One.

NB-IoT plans from M2M One utilise Cellular Low Power Wide Area Networking (LPWAN) and are designed specifically to support IoT deployments looking for massive national scale.

Why choose an NB-IoT service from M2M One?



Superior Coverage

NB-IoT provides extended coverage and greater in-building and basement penetration for traditionally difficult locations.



Low Operating Costs

With competitive data plans and reduced messaging frequency, NB-IoT becomes a cost-effective communication method for IoT.



Lower Power Consumption

NB-IoT supports low-powered operating modes and single polling to drastically increase device battery life.

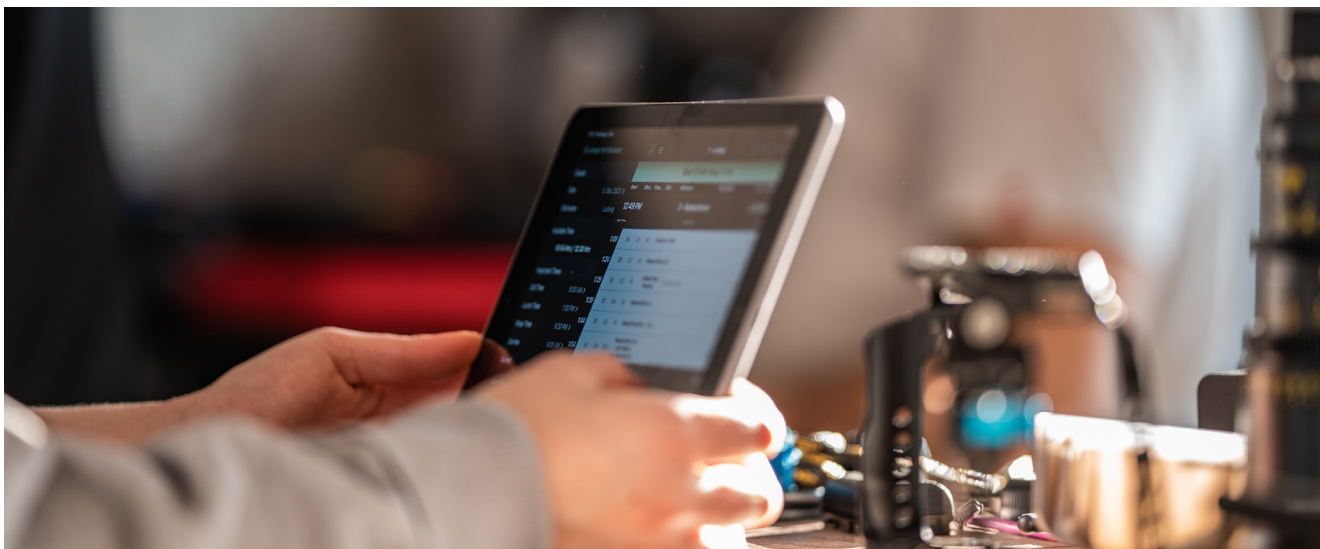


Managed Growth

M2M One's advanced management platform and team of experienced support staff proactively help you to optimize costs and scale as your business grows.

What is NB-IoT?

NB-IoT is a low-power, wide-area cellular network (LPWAN) technology which uses 200KHz of bandwidth to transfer data. Generally, the maximum upload data transfer rate is around 62.5kb per second. The slightly slower data transfer rate is offset by lower power consumption and device affordability.



M2M Data Plans



Should I Be Using NB-IoT For My Deployments?

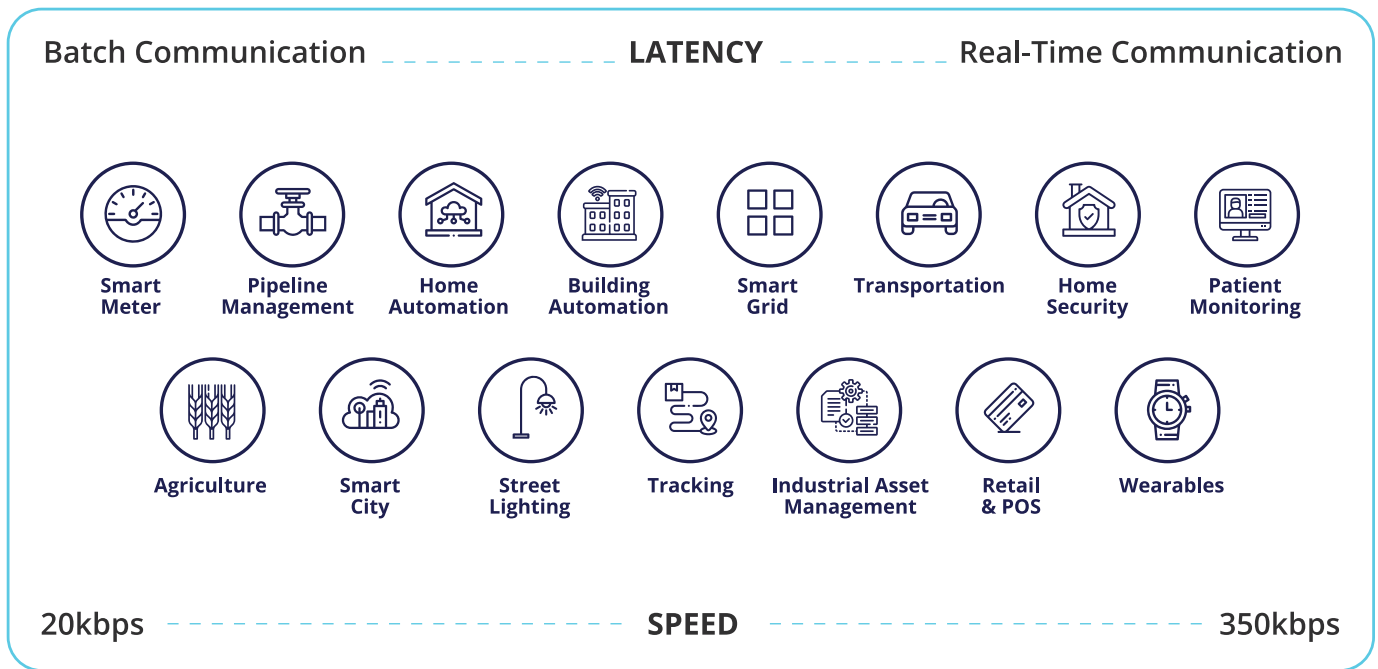
NB-IoT is designed for simple devices which infrequently send data, and require a longer battery life.

If you have widely-deployed devices in the field (such as gas, electricity or water meters, environmental sensors, or building automation) that do not need to send frequent updates, this may be a suitable technology for your requirements.

Check the diagram below for more information on whether NB-IoT or LTE-M are the most suitable option for your deployment.

Two Leading LPWA Technologies

NB-IoT	5G ready	LTE-M	5G ready
<ul style="list-style-type: none"> • Focused on very low data rates • Ideal for simpler static sensor applications 		<ul style="list-style-type: none"> • Highest bandwidth of any LPWA technology • Ideal for fixed and mobile applications 	



M2M Data Plans



Our goal is to keep you in control of your SIM fleet. We understand the frustrations associated with managing a sizable fleet of M2M SIM cards and services which is why we give all of our customers access to the industry leading CISCO Jasper Control Centre free of charge.

Take control of your fleet with real time usage information, SIM status reports, diagnostic tools and more

Low use plans

Data plans ranging from 30KB to 3MB are ideal for low use M2M/IoT applications that send and receive small packets of data and transmit infrequently or by exception. A majority of these devices rely on data saving methods like using UDP as a transmission protocol or static routes to reduce their overall device traffic.



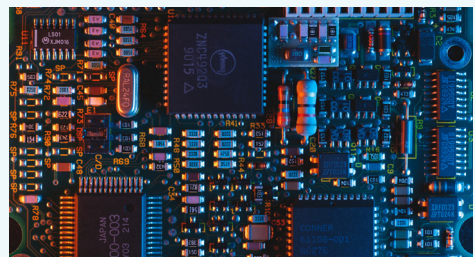
Medium use plans

Data plans ranging from 5MB to 300MB are ideal for medium use M2M/IoT applications. Typically these devices send and receive larger packets of data and regularly. A majority of these devices will use the open internet as their primary communication method and tend to transmit using TCP.



High use plans

Data plans ranging from 500MB to 20GB are ideal for high use M2M/IoT applications. These are devices that typically allow the user real time access to a remote location, transferring large files or streaming content.



Extreme use plans

Data plans ranging from 25GB to 100GB are ideal for the highest bandwidth M2M/IoT applications. These are typically devices that are on 24/7 and transmit or stream high volumes of data and information.



M2M Control Centre



Data plans ranging from 30KB to 3MB are ideal for low use M2M/IoT applications that send and receive small packets of data and transmit infrequently or by exception. A majority of these devices rely on data saving methods like using UDP as a transmission protocol or static routes to reduce their overall device traffic.

View



Our control centre can act as an authoritative data store for all information relating to your SIM cards, instantly view:

- SIM identifiers like IMSI, MSISDN & ICCID.
- M2M One information like data plan & configuration.
- Store additional device information using custom fields.
- Attach "Cost Centres" to SIMs so you know exactly who to charge.

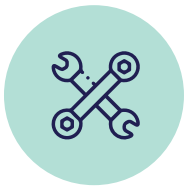
Monitor



Never find yourself at the mercy of a rogue device again with real-time monitoring. Session information is sent to the control centre and uploaded instantly, allowing you to tracking your usage as it's happening.

- Monitor SIM usage and adjust data plans at any time if needed.
- Set up alerts to keep you up to date on your usage for the month.
- Monitor aggressive SIM behavior like multiple session attempts

Diagnose



Having issues with a SIM or device in the field? Our control centre allows you unparalleled diagnostic information and fail safe controls.

- Diagnostic tools will tell you exactly where a SIM is failing.
- Historical session information lets you pinpoint issues.
- Send an SMS directly to your device from the control centre.
- Force the SIM to reconnect to the network.

Automate



Utilize the tools in our control centre to automate your work flow and make running your M2M project a breeze. Need to automatically suspend a SIM when it hits it's allowance or move it to a new plan, the choice is yours.

- Automatically suspend or change a SIMs profile.
- Create email notifications and workflows to manage SIM usage.
- Integrate directly with the control centre using powerful API calls.



M2M IP Networking

Want to run your own private IP network but find the cost prohibitive?

At M2M One we understand that to run an efficient & secure operation sometimes your devices require more specialist networking services. Which is why we created M2M One IPX, a dedicated IP networking service, available as an additional service on all of our SIMs.

What is M2M One IPX?

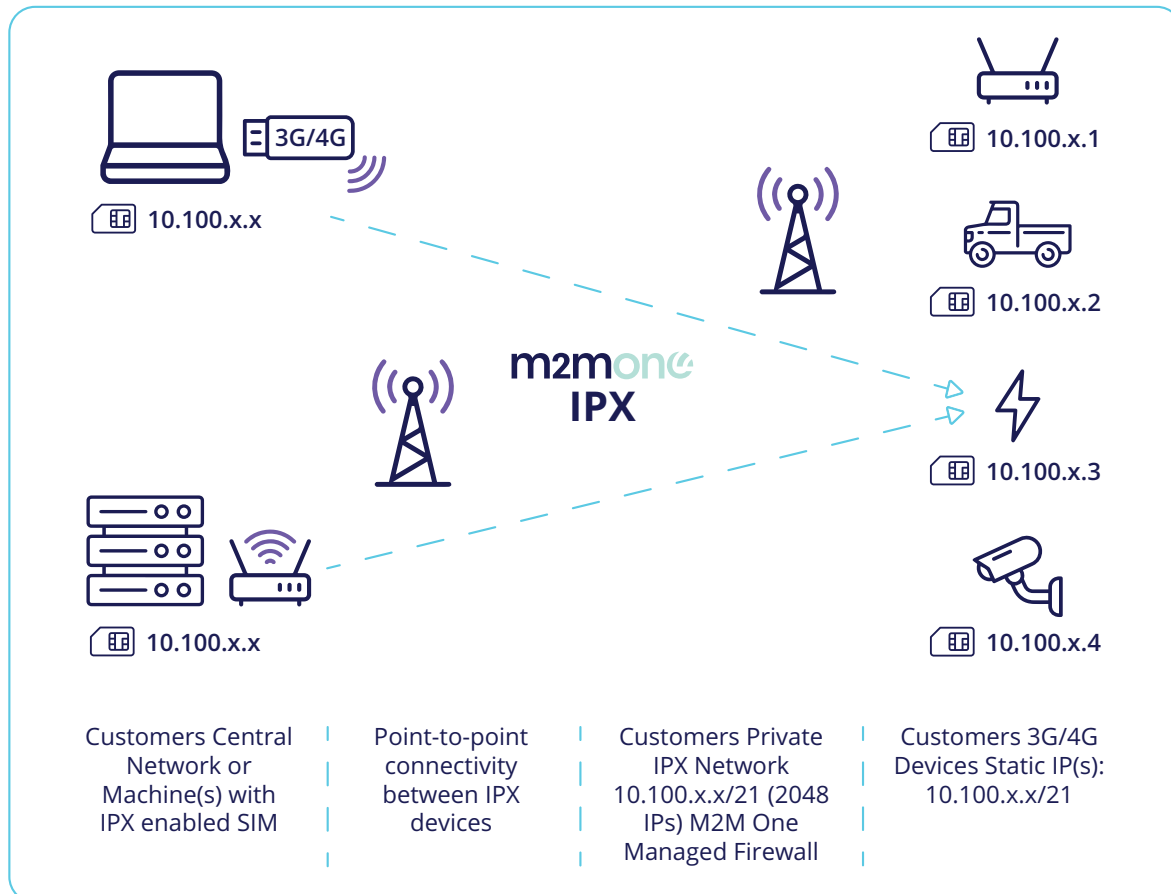
IPX is M2M One's IP Wide Area Network (IPWAN). A high quality, fully managed service that delivers static IP addresses, secure access and custom routing to your M2M/IoT devices.

M2M One provides you with a subnet of IP address on a private APN - All traffic on this APN is completely firewalled off from the public internet and is typically barred from calling out over the public internet but this can be allowed if needed.

In order to communicate with SIMs on IPX you will need a way to access your subnet, this can be done in three different ways (See diagrams for more detail):

1. **Point-to-Point SIM Communication** - Direct access from a modem or router between IPX SIMs
2. **Software Based IPSEC VPN** - Client to Site access between a remote environment and IPX SIMs
3. **Hardware Based IPSEC VPN** - Site to Site access between a fixed environment and IPX SIMs

1. Point-to-Point SIM Communication



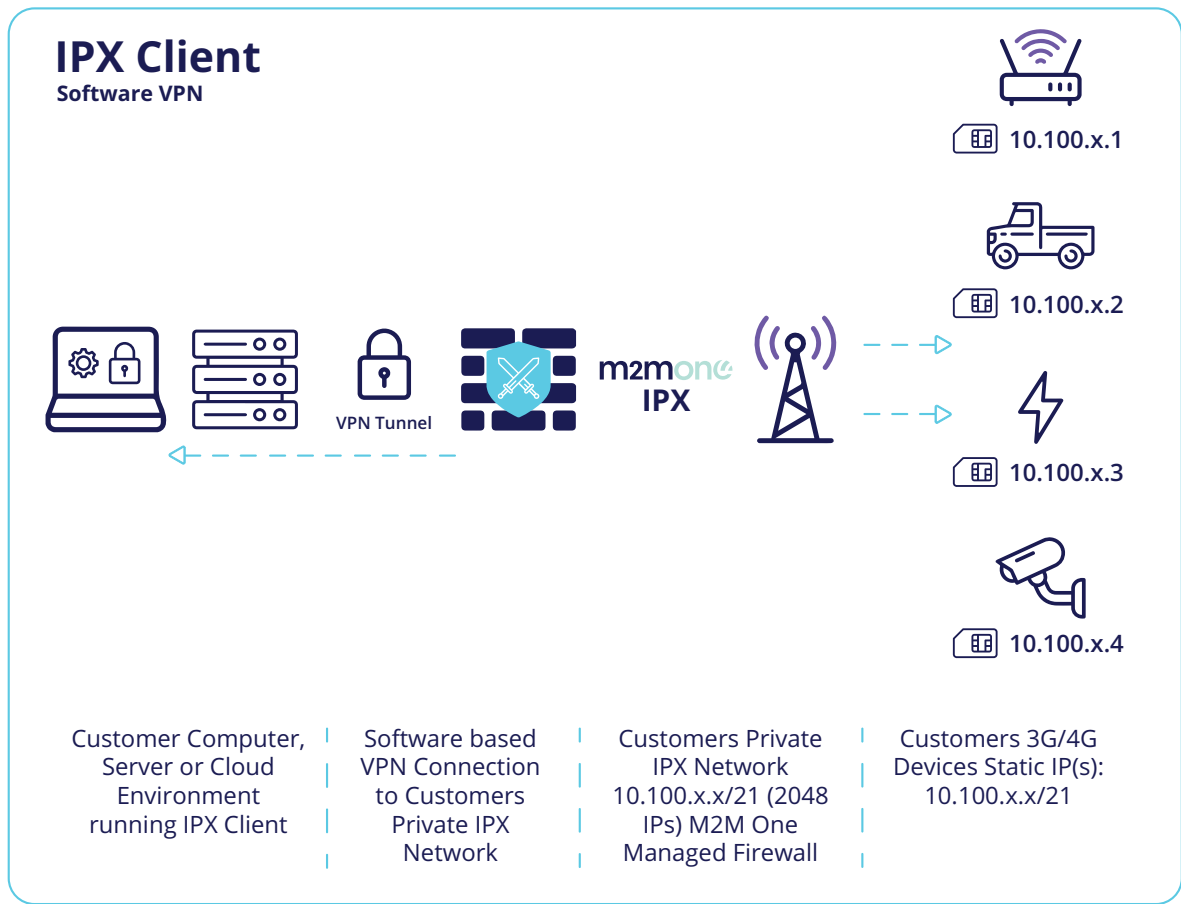
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2. Software Based IPSEC VPN



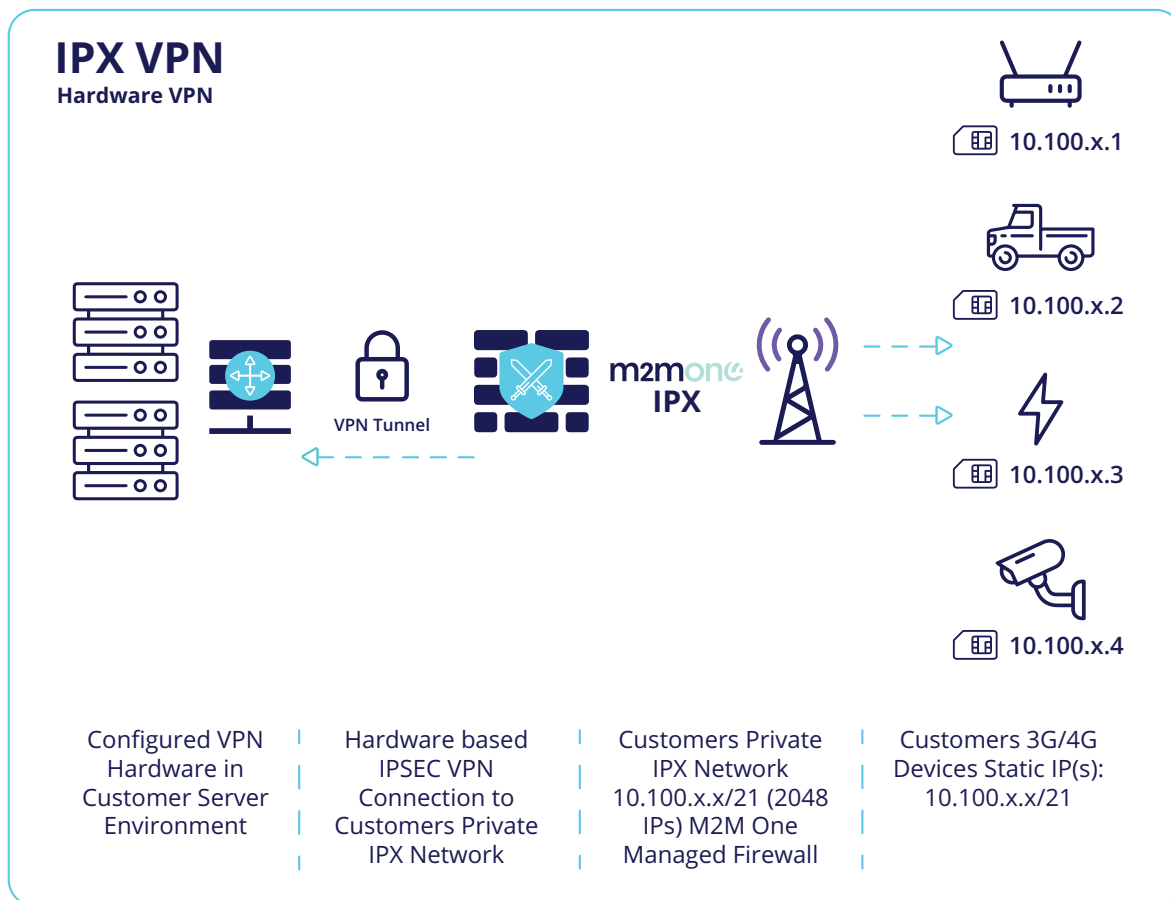
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3. Hardware Based IPSEC VPN



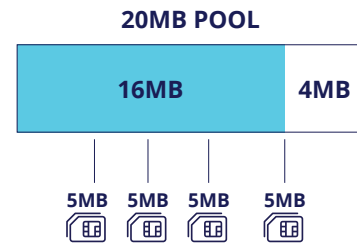
M2M IP Networking



M2M One Group Data Plans (Flexible Pool)

With group data plans every active SIM on the same rate plan contributes its data allowance to create a “pool” of data across your SIM fleet - For example 4 x 5MB SIM cards gives you a pool of 20MB. (Note: SIM Cards do not pool across different rate plans)

If you exceed the limit of the pool you can move to a larger plan at any point in the calendar month.



M2M One Group Data Plans	Price per SIM per Month (Volume Discount is automatic based on Active Services per Rate Plan) All pricing is in Australian Dollars (\$AUD) and EX-GST					
Pooled Data Contribution per SIM per Month	1 - 99 Services	100 - 249 Services	250 - 499 Services	500 - 999 Services	1000+ Services	Excess Usage Per MB
0.03MB - Group	\$1.47	\$1.37	\$1.28	\$1.23	M2M One will provide a custom quote for volumes over 1000 Active Services	\$18.70
0.05MB - Group	\$1.70	\$1.60	\$1.50	\$1.40		\$18.70
0.1MB - Group	\$2.30	\$2.10	\$2.00	\$1.90		\$9.35
0.5MB - Group	\$2.70	\$2.43	\$2.30	\$2.24		\$4.68
1MB - Group	\$3.50	\$3.15	\$2.98	\$2.74		\$2.81
3MB - Group	\$4.65	\$4.19	\$3.96	\$3.64		\$1.22
5MB - Group	\$5.75	\$5.18	\$4.89	\$3.94		\$0.94
10MB - Group	\$7.00	\$6.30	\$5.95	\$4.79		\$0.56
30MB - Group	\$7.50	\$7.00	\$6.60	\$5.60		\$0.23
50MB - Group	\$7.80	\$7.30	\$6.90	\$6.20		\$0.14
100MB - Group	\$8.60	\$8.00	\$7.50	\$6.80		\$0.08
150MB - Group	\$9.50	\$8.80	\$8.30	\$7.50		\$0.06
300MB - Group	\$10.25	\$10.00	\$9.40	\$9.10		\$0.04
500MB - Group	\$12.80	\$12.15	\$11.75	\$11.50		\$0.04
1GB - Group	\$14.95	\$14.25	\$13.65	\$13.40		\$0.04
2GB - Group	\$21.00	\$20.00	\$19.00	\$18.50		\$0.04
3GB - Group	\$27.50	\$26.00	\$25.00	\$24.00		\$0.04
4GB - Group	\$30.70	\$28.65	\$28.00	\$26.00		\$0.04
6GB - Group	\$39.50	\$38.10	\$36.00	\$34.50		\$0.04
8GB - Group	\$48.25	\$45.00	\$42.00	\$40.00		\$0.04
10GB - Group	\$59.00	\$55.00	\$52.00	\$49.00		\$0.04
12GB - Group	\$65.00	\$63.00	\$60.00	\$57.00		\$0.04
15GB - Group	\$75.00	\$70.00	\$69.00	\$67.00		\$0.04
20GB - Group	\$90.00	\$85.00	\$83.00	\$80.00		\$0.04
25GB - Group	\$100.00	\$95.00	\$90.00	\$87.00	\$0.04	
30GB - Group	\$110.00	\$105.00	\$100.00	\$98.00	\$0.04	
40GB - Group	\$115.00	\$107.00	\$105.00	\$103.00	\$0.04	
50GB - Group	\$120.00	\$115.00	\$110.00	\$107.00	\$0.04	
100GB - Group	\$200.00	\$195.00	\$190.00	\$185.00	\$0.04	

M2M IP Networking



M2M SIM Cards

M2M One provide a full range of form factors for SIM cards designed to fit any M2M/IoT Device.

M2M One Group Data Plans	Price per SIM	
M2M Standard SIM (2FF)	\$3.00	\$2.50
M2M Micro SIM (3FF)	\$3.00	\$2.50
M2M Nano SIM (4FF)	\$3.00	\$2.50
M2M Industrial SIM (2FF) or (3FF)	\$5.00	\$4.50
M2M Solderable SIM Chip (MFF2)	\$5.00	\$5.00

NB-IoT Pricing

	Bronze				
NB-IoT Data	85KB per Token				
Token Packs	100 Tokens	250 Tokens	500 Tokens	1000 Tokens	2500 Tokens
Price Per Token	\$0.58	\$0.56	\$0.54	\$0.52	\$0.50
Token Pack Price	\$58.00	\$140.00	\$270.00	\$520.00	\$1,250.00
	Silver				
NB-IoT Data	256KB per Token				
Token Packs	100 Tokens	250 Tokens	500 Tokens	1000 Tokens	2500 Tokens
Price Per Token	\$0.83	\$0.81	\$0.79	\$0.77	\$0.75
Token Pack Price	\$83.00	\$202.50	\$395.00	\$770.00	\$1,875.00
	Gold				
NB-IoT Data	427KB per Token				
Token Packs	100 Tokens	250 Tokens	500 Tokens	1000 Tokens	2500 Tokens
Price Per Token	\$0.92	\$0.90	\$0.88	\$0.86	\$0.84
Token Pack Price	\$92.00	\$225.00	\$440.00	\$860.00	\$2,100.00

For large scale volume orders over 2500 Tokens please contact M2M One for a custom quote

NB-IoT Pricing Terms & Conditions

All customers need to be qualified by M2M One staff before getting access to NB-IoT services

- Customers must have a standard account with M2M One before applying for NB-IoT services
- Voice & SMS are not available on NB-IoT Services
- NB-IoT services are controlled by a separate CISCO Jasper M2M Control Centre and are not able to be migrated to your existing Control Centre account or SIM Cards.
- NB-IoT services are sold as 'Tokens' - Each Token represents a pre-set amount of data per SIM per month.
- NB-IoT Tokens are sold in 'Packs' with 100 Tokens being the minimum
- NB-IoT Tokens will be consumed under 3 conditions:
 - Activation** - When a SIM Card is changed to Activated State
 - Renewal** - Any SIM Cards that are Active at the start of a new billing month will use a token to cover the new month.
 - Top-Up** - Usage above your pooled allowance will automatically consume NB-IoT Tokens to cover excess data
- NB-IoT Tokens do not pro-rate and all associated data expires at 23:59 at the end of each calendar month
- Moving up or down Token class (Bronze/Silver/Gold) will take effect from the first day of the following calendar month
- NB-IoT Tokens of the same level only allow pooling/aggregation (e.g. Bronze can not pool with Silver or Gold)
- Token Packs shall expire after 24 months.

M2M IP Networking



M2M One Additional Features (Optional)

NOTE: All additional features require a minimum data plan of at least 0.03MB per month

Advanced Networking (IPX)

IPX - Network Set-Up	Set-Up Cost
IP Address Pool (Required)	\$125.00
Network Change Request	\$125.00
IPSEC VPN - Software Client (Optional)	\$125.00
IPSEC VPN - Hardware (Optional)	\$250.00
IPSEC VPN - Client & Hardware (Optional)	\$300.00

IPX - VPN Monthly Charges	Monthly Cost
IPSEC VPN - Software Client (up to 5 users)	\$50.00
IPSEC VPN - Hardware	\$100.00
IPSEC VPN - Client & Hardware	\$125.00

IPX - Static IP Address Charges	1 - 99 Services	100 - 249 Services	250+ Services
Monthly Cost per Active SIMIPSEC VPN - Hardware	\$5.00	\$2.50	\$0.50

M2M One IPX - Your own private IP range on the Telstra Mobile Network.

M2M One IPX gives you your own private IP subnet on our private APN. This allows direct access to devices in the field using a unique static IP address.

The IP Addresses allocated to your devices using IPX are private, and access to them from the public internet is prohibited by strict firewall rules. Making IPX a robust and secure network for sensitive data.

To communicate with your IPX devices you will need to use point-to-point between devices on your IPX Network or by using an IPSEC VPN. methods like using UDP as a transmission protocol or static routes to reduce their overall device traffic.



M2M IP Networking



M2M One Additional Features (Optional)

NOTE: All additional features require a minimum data plan of at least 0.03MB per month

SMS Messaging

Outbound SMS Messaging	
Outbound SMS messages sent per Account per Month	Price per Outbound SMS Message
1 - 499	\$0.14
500 - 999	\$0.12
1000 - 4999	\$0.11
5000 - 9999	\$0.10
10000+	\$0.09

SMS Messaging with M2M One

M2M One services can have SMS messaging enabled at any time.

SMS messaging is charged on a Pay As You Go (PAYG) Basis, and only applies to messages that originate from your SIM Card (Outbound SMS). There is no charge to receive SMS messages on any M2M One plan.

SMS charges are calculated on the volume of Outbound SMS Messages per account, not per SIM.

Voice Calling

Outbound Voice	Included Voice per Month			
	Number of Active Services on Plan	PAYG per second	1 Minute Bundle	10 Minute Bundle
1 - 499		\$0.012	\$0.69	\$4.00
500 - 999		\$0.012	\$0.62	\$3.60
10000+		\$0.012	\$0.58	\$3.40

Voice Calling with M2M One

M2M One offer traditional voice services for use with M2M Devices that require an outbound or inbound voice component (i.e. Duress Alarms, etc).

Usage outside of the allocated bundle will be billed at the Pay As You Go (PAYG) rate.

International Roaming

International Roaming	PAYG per Unit
Outbound SMS per Message	\$1.00
Data per MB	\$4.00

International Roaming with M2M One

M2M One SIMs can be provisioned with International Roaming for use outside of Australia.

Roaming usage is billed at a pay per use rate and is billed in 1KB/10KB increments depending on the country.

M2M One Pricing Terms & Conditions

- All pricing is in Australian Dollars and Excludes GST.
- Domestic Australian shipping is \$15.00 per order and dispatched in 24 hours via Star Trak Express.
- International shipping can be done via customer's preferred freight provider or quoted on order via DHL.
- SIM Cards are invoiced at the time of purchase - Data plans are invoiced at the time of activation.
- Unless otherwise agreed invoices are generated monthly in advance with 7 day payment terms.
- M2M One accept payment via Credit Card (Surcharge Applies), EFT or Direct Debit.

m2mone

m2mone.com.au



Get started with Australia's leading
provider of IoT SIM services today!