Machine-to-Machine Communication with Intelligent Singtel M2M Routers.

Power up your business operations with Singtel M2M Routers. Enabling existing devices to be M2M-ready with plug-and-play 3G routers and SIM data connectivity, the solution also provides a management platform so that you can have total visibility into your M2M deployment.

Singtel

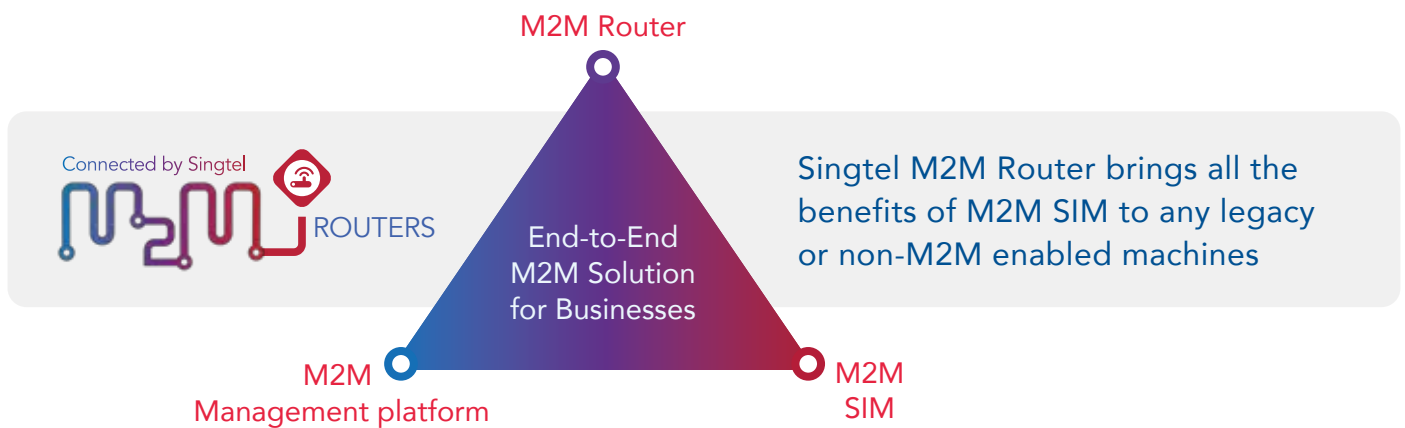Let's make everyday better

M2M Routers

The Complete Field Operations Management Solution

M2M SIM

As the baseline requirement of any M2M deployment, SIM connectivity has made it possible for machines to be connected wirelessly over the cellular network, creating new business models and driving higher levels of business efficiencies. Singtel M2M SIM not only enables machines to communicate with each other, it also comes with a powerful management platform so that you can manage data usage, billing and even run diagnostics on your M2M deployment.

M2M Router

To enjoy the full benefits of a complete M2M connectivity solution, your devices must be M2M-ready. By partnering industry leaders, NetComm Wireless and Robustel, Singtel M2M Routers make any machine, without M2M connectivity, M2M-ready. This means that your business can count on seamless, reliable connectivity to take advantage of intelligent M2M communications.

M2M Router

Connected by Singtel

M2M ROUTERS

End-to-End
M2M Solution
for Businesses

M2M Management platform

M2M SIM

Singtel M2M Router brings all the benefits of M2M SIM to any legacy or non-M2M enabled machines

Features

Plug & play design
Pre-installed with M2M SIM and readily connects to legacy or non-M2M enabled devices through a number of interfaces including Ethernet, RS232/422/485 Serial, USB 2.0 and configurable digital and analog I/Os.

Ruggedised hardware & M2M SIM
Industrial-strength router with compact rubberised case[1] built for harsh conditions. Comes with ruggedised M2M SIM card tested for extreme operating temperatures from -40 to 105 degrees for reliable remote data acquisition and control.

Flexible price plans
Flexible M2M pricing plans with data pooling benefits to deliver greater value to your business.

Real-time diagnostics & alerts
Identify and rectify potential causes of operational hiccups, whether they arise from network, hardware or application issues.

Advanced M2M applications (on NetComm Wireless models only)
Built-in CPU enables development of custom M2M applications with router's open Linux operating system and SDK.

[1]Comes with built-in wall mount and DIN rail mounting options.

Comparison of Features

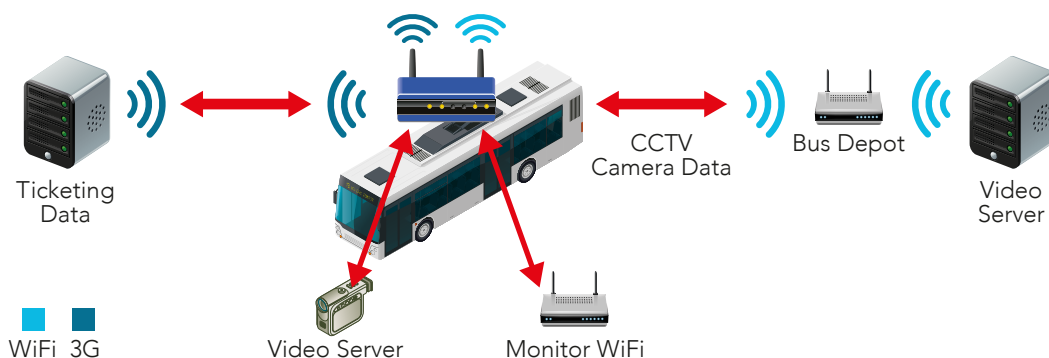| Features*	**NetComm Wireless** Intelligent M2M Applications with seamless connectivity	**Robustel R3000L** Generic day-to-day M2M operation
Heavy-duty, ruggedised for harsh working conditions	Very good	Very Good
High-speed, secure connection	Yes	Yes
Remote system monitoring, diagnostics, configuration and firmware updates	Yes	Yes
Send/Receive SMS between M2M SIM	Yes	Yes
Embed software onto router with built-in CPU and SDK	Yes	Not Available
Connectivity for sensors output through digital and analog I/Os	Yes	Not Available
GPS tracking to locate routers	Yes	Not Available

*Specifications between different models may vary, please refer to product specifications sheet for full product technical information.

Applications in Various Industries

Public transportation - Reinforce passenger safety with real-time in-vehicle monitoring

Deployment of M2M Router with customised M2M application to deliver the following:
- Collect, validate and upload data
- Stream live video data to reinforce customer safety
- Reduce data cost by automatically toggling between 3G and WiFi based on location
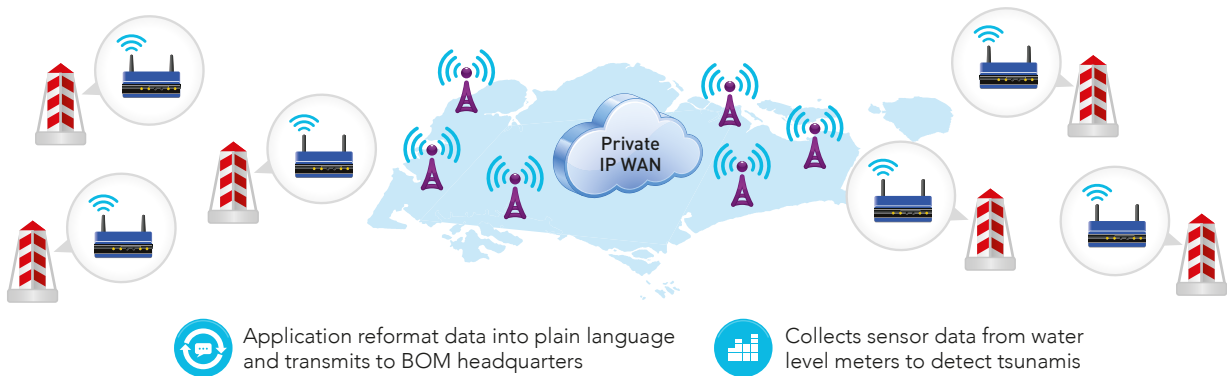- Switch automatically to low power mode when vehicle's ignition is off

WiFi 3G

Ticketing Data

CCTV Camera Data

Bus Depot

Video Server

Video Server

Monitor WiFi

Applications in Various Industries

Meteorological services - Safeguard lives through advanced weather warning systems

Deployment of M2M Router with customised M2M application to deliver the following:
- Gather, collate and upload weather data promptly from remote sensors
- Transmit summarised results to database automatically
- Receive data reliably from legacy meters and equipment without fixed line connectivity

Application reformat data into plain language and transmits to BOM headquarters

Collects sensor data from water level meters to detect tsunamis

News services - Deliver breaking news to viewers at the speed of data

Deployment of M2M Router with customised M2M application to deliver the following:
- Mount M2M Router directly on the camera
- Transfer video files to television network's servers via FTP immediately and automatically
- Send clear communications to the field camera operator once file transfer is completed
- Support "breaking news" footage:
  - Fast transfer of video files in Standard Definition
  - Immediate editing is possible
- Transfer High Definition video footage

Video Recorder   USB Key   Private IP WAN   Central Database

Why choose Singtel M2M?

As a trusted machine-to-machine partner, we deliver M2M connectivity that will help your business enjoy:

Faster to-market speed
New customers can expect to activate M2M SIM connectivity in less than 30 days. This means reduced lead time for provisioning and more time for doing business.

Best visibility and control
M2M SIM provides the best M2M Platform and user experience for enterprise-level solutions, equipping you with the ability to view connection status, automate processes and manage connectivity from any location. With powerful diagnostics and customer support tools, automated alerts and SIM-provisioning management, you can address customer needs and queries, and take corrective actions swiftly.

Best coverage from in and out of Asia
M2M SIM also brings with it Singtel's strong partnership with mobile operators in the region such as the Bridge Alliance Centre of Excellence. Serving over 500 million customers, Bridge Alliance is a leading mobile alliance of 14 leading operators with a comprehensive footprint in Asia. Through members of the alliance, Singtel M2M SIM is able to provide you seamless connectivity to other parts of Asia and cost savings through preferred roaming rates.

Extended coverage beyond Asia
For businesses that need reach beyond Asia, Singtel provides extended global coverage through M2M World Alliance network.

Hear from Our Customers

> " Our experience in using the NetComm Wireless SDK has been very positive. We were able to rapidly come up to speed with the SDK, experiencing minimal difficulties in successfully using the SDK facilities and NetComm Wireless products. **- Mr Geoff Sizer, CEO of Genesys Electronics Design**

> " Partnering with Singtel has alleviated the stress of solutioning. Infrastructure is now a given and we have peace of mind, knowing that we can leave it to Singtel to take care of that for us. This has helped us leapfrog the competition and raise our competitive positioning. **- Ms LN Tan, Call Services Manager, Ademco (Far East) Pte Ltd**

About Singtel

Singtel is Asia's leading communications group providing a portfolio of services including voice and data solutions over fixed, wireless and Internet platforms as well as infocomm technology and pay TV. The Group has presence in Asia, Australia and Africa with over 500 million mobile customers in 25 countries, including Bangladesh, India, Indonesia, the Philippines and Thailand. It also has a vast network of offices throughout Asia Pacific, Europe and the United States.

Awards

Asia Communication Awards
Best Enterprise Service (2013) - Connectivity as a Service
Best SME Service (2013) - myBusiness

Computerworld Singapore Customer Care Award
Telecommunication Services (2008 - 2013)
Computerworld Cloud Services (2012, 2013)

Telecom Asia Awards 2012
Best Asian Telecom Carrier
Best Regional Mobile Group

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