Internet of Things Industry Review

Company	IoT Description	URL
Aliexpress	Global eCommerce suppliers that can supply Internet of Things hardware.	https://www.aliexpress.com
Altoview	The company has set up 4 (LoRa WAN) base stations in Townsville for Internet of Things. Civic building, Castle Hill, Mt Stuart and JCU. It covers most of Townsville and the west of Magnetic Island. The 915 MHz circuits (Arduino Xbee plug) have a range of 10 km. Each circuit has a unique 16 hex value. Register a new board and the data can be in the cloud in minutes. There is a free education channel or paid encrypted channel. Public IoT data is available for free. See Campbell Scientific (parent company). See Multitech for comms circuits.	http://altoview.com.au/
Amazon	Amazon Web Services S3 - Cloud File Storage in triplicate Kinesis - Collection stream of IoT data Lambda - Code run over IoT data DynamoDB - NoSQL database storage of IoT data Cloudwatch - Cloud computer monitoring Cloudtrail - Event logging and management Echo - Microphone and speaker for home automation. This includes Alexa voice recognition.	https://aws.amazon.com/iot/
Arduino	Arduino Nano microcontroller circuit with ESP8266 WiFi Wemos D1 Arduino microcontroller circuit with WiFi. Compatible with Arduino Uno. Arduino Yun microcontroller circuit with Linux, Ethernet and Wifi	https://www.arduino.cc/
ARM	Internet of Things - System on a Chip. This type of silicon chip is licenced to multiple manufacturers. It can be found in IoT, Automotive, Android phones, Smart houses, wearables & healthcare. Mbed integrated development environment. Can work with Bluetooth, Ethernet, WiFi, LoRa WAN, cellular, RFID and NFC	https://www.arm.com/products/iot-solutions https://www.mbed.com/en/platform/mbed-os/
Bosch	IoT Analytics, Hub, Integrations, Permissions, Remote Manager, Rollout updates, Asset management	https://www.bosch-si.com/iot-platform/bosch-iot-suite/homepage-bo

		sch-iot-suite.html
Campbell Scientific	Campbell Scientific can build industrial Internet of Things hardware solutions including sensors, data collection, communications, solar and batteries. E.g. Weather, water levels, air quality, soil moisture, leaf sensor and rainfall. There is also an Altoview training room for IoT.	https://www.campbellsci.com.au/
Cisco	Network connectivity IoT "Fog applications" Management and Automation Cybersecurity	http://www.cisco.com/c/en/us/solutions/internet-of-things/iot-products.html
Element 14	Australian and Global large electronics supplier	http://au.element14.com/
General Electric	Industrial machine measurement systems	https://www.ge.com/digital/ https://www.ge.com/digital/industrial-internet
Google	Google Home - Google Assistant with voice response house speaker and microphone Google Cloud Compute IoT Google Nest temperature home automation (USA)	https://madeby.google.com/home/ https://cloud.google.com/solutions/iot/
Honeywell	Industrial Internet of Things	https://www.honeywellprocess.com/en-US/online_campaigns/IIOT/Pages/Index.html
Hypercat	Open standard for describing Internet of Things data	http://www.hypercat.io/australia.html
IBM	IBM Watson Health - patient engagement	https://www.ibm.com/watson/health/
Intel	Intel Quark microcontroller for IoT including development boards. Intel IoT Gateways. Intel/McAfee security.	http://www.intel.com.au/content/www/au/en/internet-of-things/overview.html
Jaycar	Local electronics supplier including Internet of Things	https://www.jaycar.com.au/
Microsoft	Microsoft Azure cloud IoT	https://www.microsoft.com/en-au/internet-of-things/azure-iot-suite

Multitech	Communication hardware including Low Powered Wide Area Network (LoRa WAN). Note, the circuits need to be programmed/flashed for Australian use. Free software provided.	http://www.multitech.com/brands/multiconnect-mdot
Orange	Telco with IoT options using cellular or LoRa WAN in Europe. Programming API to work with IoT.	https://partner.orange.com/iot-solutions/ https://orangeiotstudio.com/
Postscapes	"Leading destination for early adopters and thought leaders in the Internet of Things space." Internet of Things standards list with descriptions.	https://www.postscapes.com/ https://www.postscapes.com/internet-of-things-protocols/
Raspberry Pi	Raspberry Pi 3 - Linux / Windows 10 IoT core, WiFi, Ethernet, Bluetooth, Input / Output, MicroSD storage, HDMI, USB Raspberry Pi Zero W - Linux, Wifi, Bluetooth, Input / Output, microSD storage, mini HDMI, USB	https://www.raspberrypi.org/products/
RS Components	Australian and Global large electronics supplier	http://au.rs-online.com/web/
Shield List	List of supplier that make shields (circuit boards) that work with Arduino.	http://shieldlist.org/
Smart Citizen	Global public network on environment sensors	https://smartcitizen.me
Texas Instruments	Sensors, silicon chips, communication circuits, microcontrollers, power supplies, battery control, system isolation monitoring. Extensive user cases reviewed.	http://www.ti.com/ww/en/internet_of_things/iot-overview.html
The Things Network	Global group promoting Internet of Things gateway deployments and use	https://www.thethingsnetwork.org/
Thessenkrup	Elevator IoT - Motor temperature, elevator speed, door function	https://www.thyssenkrupp.com/en/ http://thyssenkrupp-elevator.com.au/en/home
Thingful	Mapping of Internet of Things locations. Thingful includes shipping in real time. There are many Townsville IoT sites listed.	https://thingful.net
Thingworx	IoT platform, ecosystem, community, resources and marketplace.	https://www.thingworx.com/
Xively	Enterprise IoT data platform including storage, SDK's, gateways, security and business logic.	https://www.xively.com