5G Device Ecosystem

Prepared by GSA based on data from the GSA Analyser for Mobile Broadband Devices (GAMBoD)

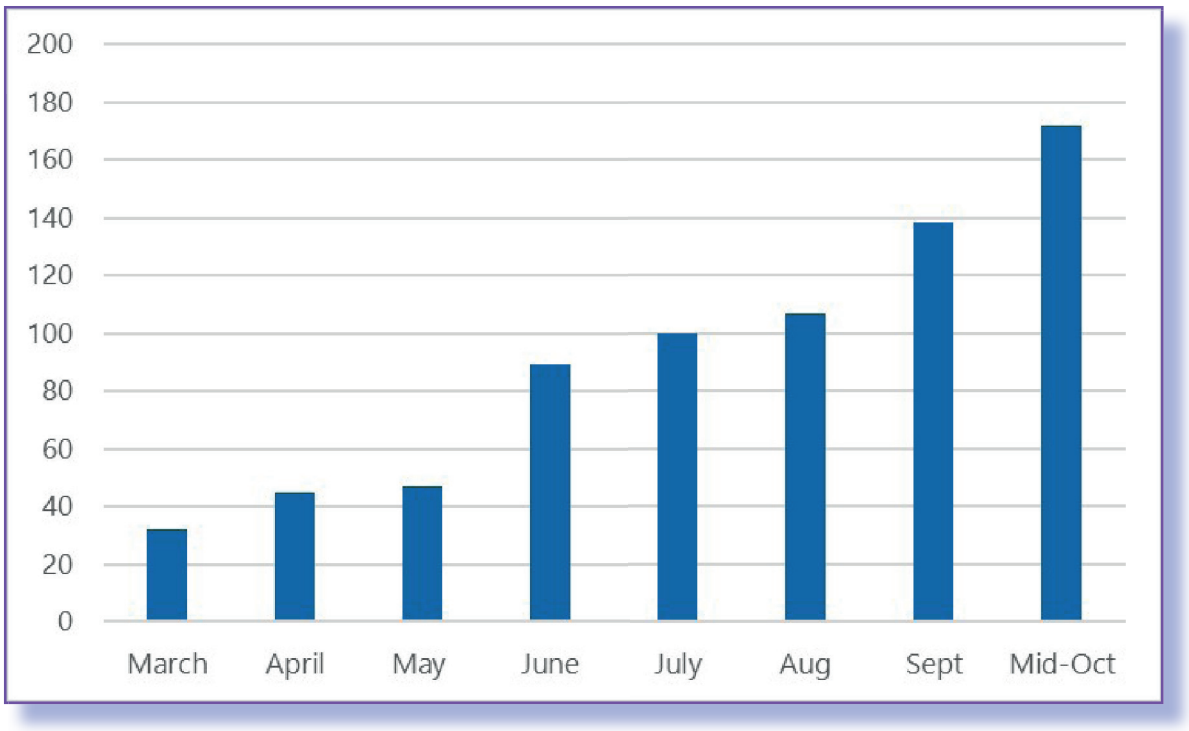
October 2019

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Key facts

In the first nine months of 2019, the number of announced 5G devices grew rapidly, starting with a few announcements and then gathering pace as operators in various parts of the world launched their first commercial 5G services.

Figure 1: Growth of announced 5G devices (not all commercially available)



GSA has identified 172 announced 5G devices from 71 vendors

At least 38 are commercially available

By 18 October, GSA had identified:

- fifteen announced form factors (phones, head-mounted display, hotspots, indoor CPE, outdoor CPE, laptops/notebooks, modules, snap-on dongles/adapters, enterprise routers, IoT routers, drones, robots, TVs, a switch, a USB terminal and a vending machine).
- seventy-one vendors that had announced available or forthcoming 5G devices.

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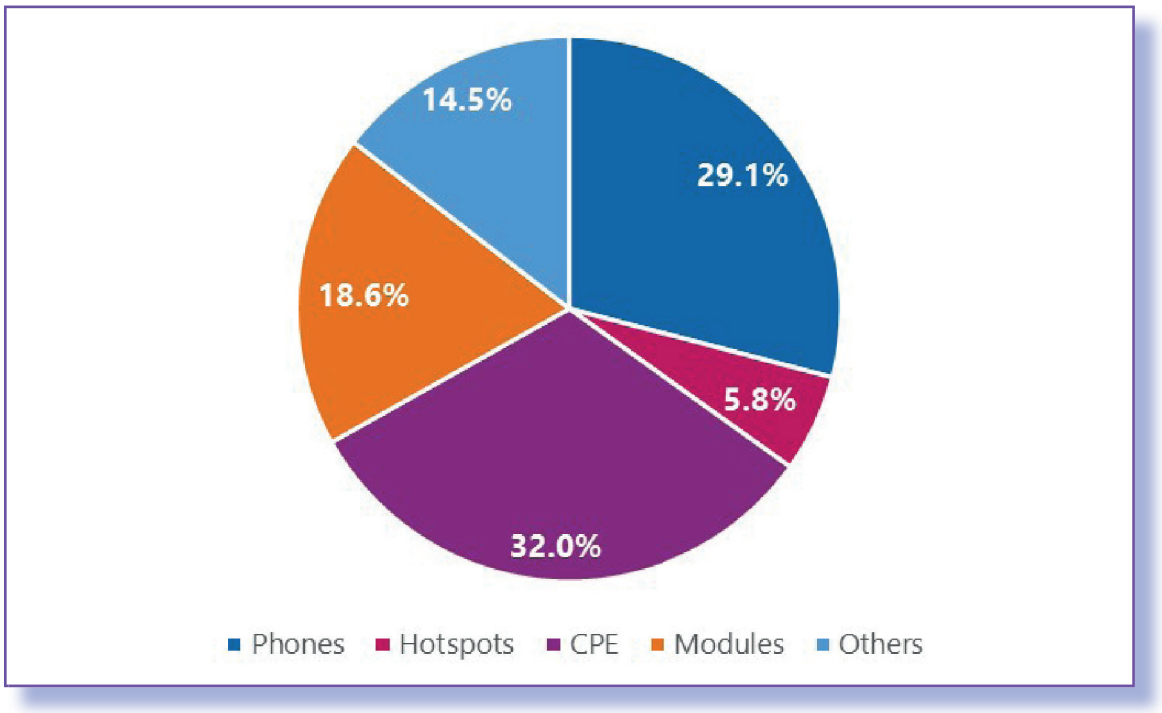
- one hundred and seventy-two announced devices (including regional variants, and phones that can be upgraded using a separate adapter, but excluding prototypes not expected to be commercialised), including at least 38 that are commercially available (up from around 20 commercially available devices in June 2019)
  - fifty phones; at least twenty-three of which are now commercially available, (including three that can be 5G-enabled with an adapter)
  - ten hotspots (including regional variants); at least four of which are now commercially available
  - fifty-five CPE devices (indoor and outdoor, including two Verizon-spec compliant devices) at least nine of which are now believed to be commercially available
  - thirty-two modules
  - three robots
  - two snap-on dongles/adapters
  - seven routers
  - two drones
  - two head-mounted displays
  - two laptops (notebooks)
  - one switch
  - two USB terminals/dongles
  - three televisions
  - one vending machine.

The 172 announced 5G devices include fifty-five CPE devices and fifty phones

Not all devices are available immediately and specification details remain limited for some devices.

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Figure 2: Announced 5G devices, by form factor



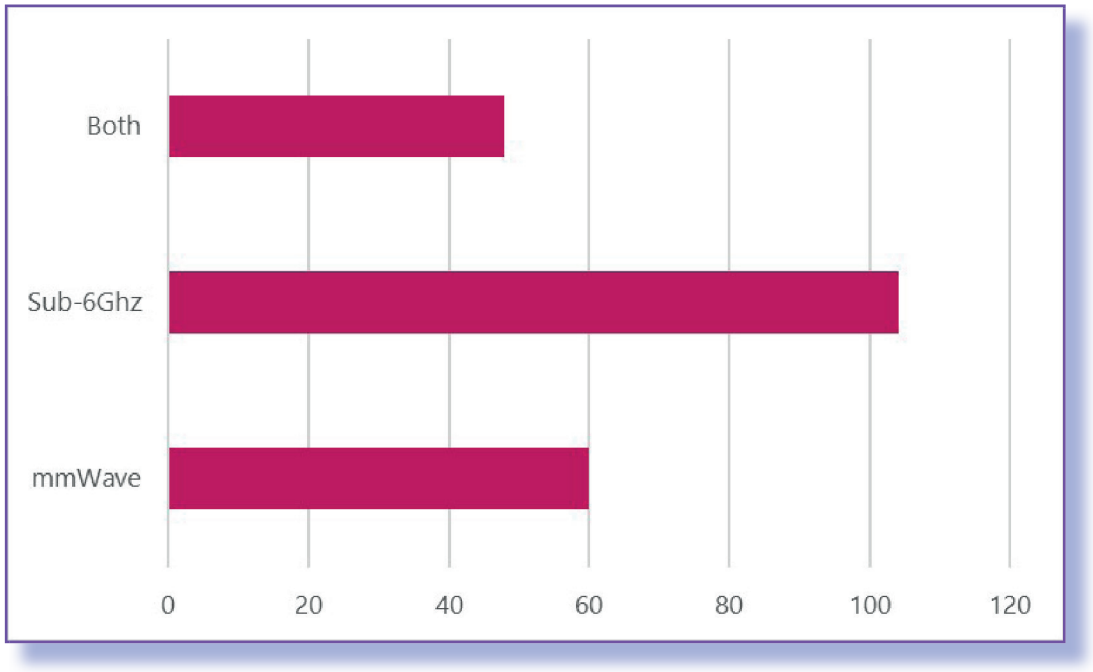
Over 58% of announced 5G devices are identified as supporting sub-6 Ghz bands

Spectrum band support of 5G devices

Over 40% support mmWave spectrum

Data about the spectrum support of announced devices is improving as a greater number become commercially available. Over 58% of all announced 5G devices are identified as supporting sub-6 GHz spectrum bands. Just over 40% are understood to support mmWave spectrum.

Figure 3: Announced devices with known spectrum support, by broad category (data not available for all devices)

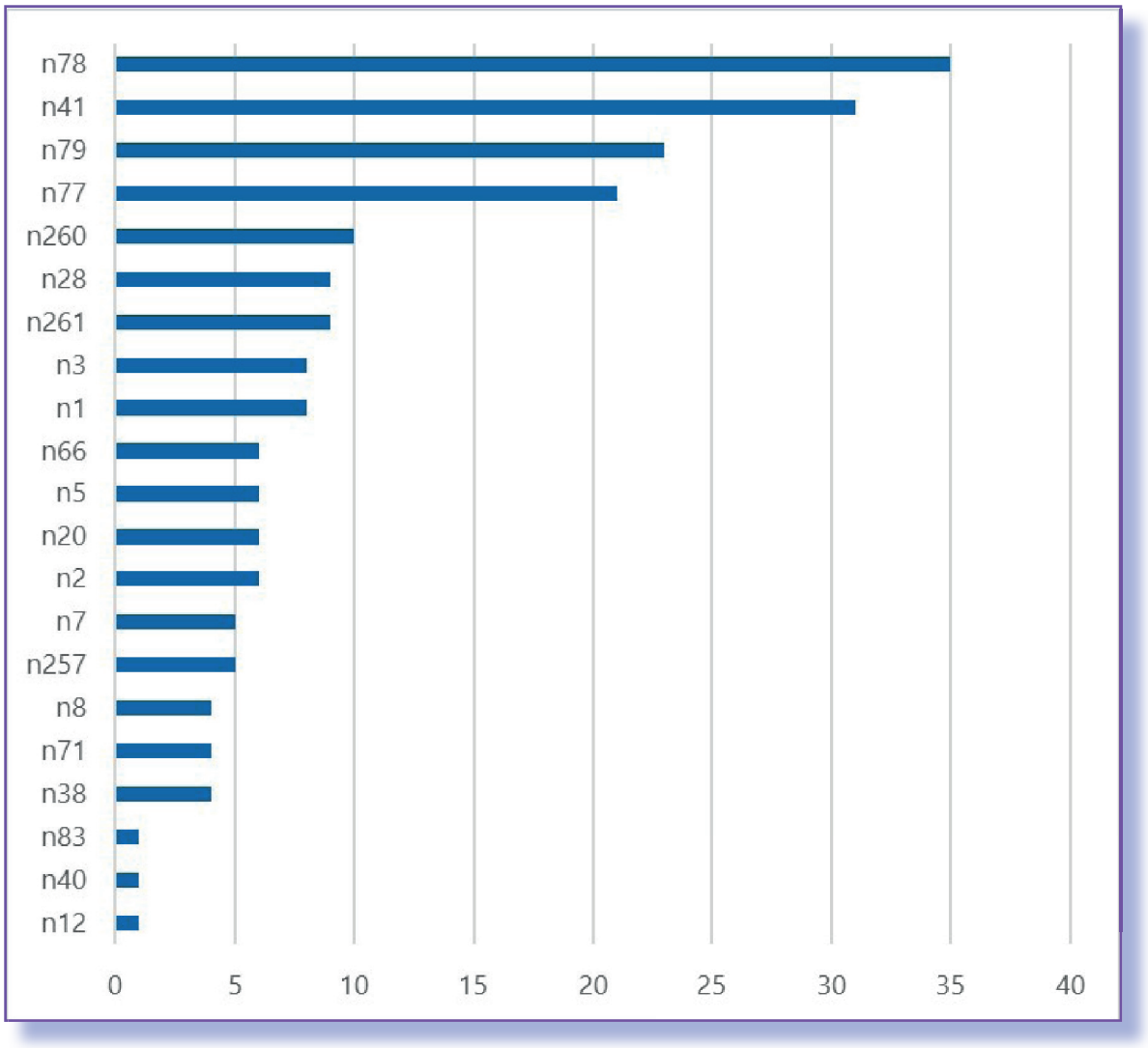


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Only twelve of the commercially available devices (less than a third) are known to support services operating in mmWave spectrum.

The bands known to be most supported by announced 5G devices are n78, n41, n79 and n77.

Figure 4: Announced devices with known spectrum support, by specific band (data not available for all devices)



Bands n78, n41, n79 and n77 are the specific bands known to be most supported by 5G devices

We can expect the device ecosystem to continue to grow quickly and for more data to become available about announced devices as they reach the market. GSA will be tracking and reporting regularly on 5G device launch announcements. Its GAMBoD database contains key details about device form factors, features and support for spectrum bands. Summary statistics are released in this regular monthly publication.

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About GSA

GSA (the Global mobile Suppliers Association) is a not-for-profit industry organisation representing companies across the worldwide mobile ecosystem engaged in the supply of infrastructure, semiconductors, test equipment, devices, applications and mobile support services.

GSA actively promotes the 3GPP technology road-map – 3G, 4G, 5G – and is a single source of information resource for industry reports and market intelligence. GSA Members drive the GSA agenda and define the communications and development strategy for the Association.

Membership of GSA is open to any supplier of products; systems or services related to the mobile industry and brings many benefits including access to the GAMBoD and NTS database. The range of benefits includes enhanced discussion, networking and influencing opportunities on the key industry topics, and unique promotional/visibility opportunities for your company name, capabilities, positioning and messages. More details can be found at https://gsacom.com/gsa-membership/

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