



Global - Device Growth Traffic Profiles

2021 Forecast

- Globally, there will be 4.6 billion total Internet users (58% of population) in 2021, up from 3.3 billion (44% of population) in 2016.
- Globally, there will be 27.1 billion networked devices in 2021, up from 17.1 billion in 2016.
- Globally, there will be 3.5 networked devices per capita in 2021, up from 2.3 per capita in 2016.
- Globally, 43% of all networked devices will be mobile-connected in 2021.
- Globally, M2M modules will account for 51% (13.7 billion) of all networked devices in 2021, compared to 34% (5.8 billion) in 2016, (18.8% CAGR).
- Globally, PCs will account for 5% (1.3 billion) of all networked devices in 2021, compared to 8% (1.4 billion) in 2016, (-2.5% CAGR).
- Globally, Tablets will account for 3% (749.5 million) of all networked devices in 2021, compared to 3% (580.3 million) in 2016, (5.3% CAGR).
- Globally, Smartphones will account for 23% (6.2 billion) of all networked devices in 2021, compared to 21% (3.6 billion) in 2016, (11% CAGR).
- Globally, Connected TVs will account for 12% (3.2 billion) of all networked devices in 2021, compared to 12% (2.0 billion) in 2016, (9.1% CAGR).
- Globally, M2M modules will average 1.044 GB per month, up from 0.338 GB in 2016.
- Globally, Smartphones will average 14.9 GB per month, up from 3.5 GB in 2016.
- Globally, Tablets will average 25.6 GB per month, up from 9.1 GB in 2016.
- Globally, PCs will average 55.1 GB per month, up from 30.6 GB in 2016.
- Globally, Connected 4K TVs will average 16.8 GB per month, up from 2.0 GB in 2016.

- Globally, Non-Smartphones will account for 5.7% (1.5 billion) of all networked devices in 2021, compared to 19% (3.3 billion) in 2016, (-14% CAGR).
- Globally, Other Portables will account for 2% (481.4 million) of all networked devices in 2021, compared to 2% (264.7 million) in 2016, (12.7% CAGR).
- Globally, 4K TVs will account for 56% (662.8 million) of all flat panel TVs in 2021, compared to 14.6% (84.6 million) in 2016, (50.9% CAGR).

2016 Review

- Globally, there were 17.1 billion networked devices in 2016, up from 15.7 billion in 2015.
- Globally, there were 2.3 networked devices per capita in 2016, up from 2.1 per capita in 2015.

Device Diversity

- Global IP traffic from non-PC devices was 54% of total IP traffic in 2016, and will be 75% of total IP traffic in 2021.
- Global Internet traffic from non-PC devices was 44% of total Internet traffic in 2016, and will be 72% of total Internet traffic in 2021.
- Globally, PCs accounted for 46% of IP traffic in 2016, and will be 25% of IP traffic in 2021.
- Globally, TVs accounted for 33% of IP traffic in 2016, and will be 30% of IP traffic in 2021.
- Globally, Smartphones accounted for 13% of IP traffic in 2016, and will be 33% of IP traffic in 2021.
- Globally, Tablets accounted for 5% of IP traffic in 2016, and will be 7% of IP traffic in 2021.
- Globally, M2M modules accounted for 2.0% of IP traffic in 2016, and will be 5.1% of IP traffic in 2021.
- Globally, PCs accounted for 52% of consumer Internet traffic in 2016, and will be 24% of consumer Internet traffic in 2021.
- Globally, TVs accounted for 21% of consumer Internet traffic in 2016, and will be 23% of consumer Internet traffic in 2021.
- Globally, TVs accounted for 16% of total Internet traffic in 2016, and will be 19% of total Internet traffic in 2021.

Average Traffic per Mobile Device

- Globally, the average smartphone will generate 6,759 Megabytes of mobile data traffic per month in 2021, up from 1618 Megabytes per month in 2016.
- Globally, the average mobile-connected laptop will generate 4,859 Megabytes of mobile data traffic per month in 2021, up from 2,461 Megabytes per month in 2016.
- Globally, the average mobile-connected tablet will generate 7,153 Megabytes of mobile data traffic per month in 2021, up from 1,861 Megabytes per month in 2016.