

Nobi Ceiling

Appliance sheet | Product requirements



The following parameters must be met to ensure smooth operation for Nobi:

Ideal installation height		For optimal performance and safety, it is recommended to install the Nobi smart lamp at a sensor height (=height of the black dot on the lamp) ranging between 6.9 feet and 7.5 feet (2.10 to 2.29 m). This installation height ensures that Nobi’s artificial intelligence operates at its best.
Internet volume & bandwidth		Data usage per 100 devices: 400 GB (upload and download combined) Bandwith requirements per 100 devices: Download: 60 Mbps - Upload: 30 Mbps Both values (Internet volume and bandwidth) scale linearly with the number of devices. Please ensure a minimum upload bandwidth of 5 Mbps regardless of the number of devices.
Firewall settings The following ports should be opened	# Cloud connection # WebRTC communication # Video uploads # NTP # Debugging # SIP signaling # SIP media # Software updates	*.nobi.cloud and nobi.cloud: port 443 (TCP) *.nobi.cloud: port 5671 (TCP) *.livekit.cloud: port 443 (TCP) *.turn.livekit.cloud: port 443 (TCP) *.host.livekit.cloud: port 3478 (UDP) For EU customers: nobi-data-production-eu-production.s3.eu-central-1.amazonaws.com For US customers: nobi-data-production-us-production.s3.us-east-1.amazonaws.com nobi-data-production-us-production.s3.amazonaws.com time1.google.com, time2.google.com, time3.google.com, time4.google.com: port 123 (UDP) *.nobi.cloud: port 2222 nobi.sip.us1.twilio.com: port 5060 (TCP + UDP) nobi.sip.us1.twilio.com: port 5061 (TCP) 168.86.128.0/18: port range 10.000-60.000 (UDP) hosted.mender.io: port 443 (TCP) s3.amazonaws.com: port 443 (TCP) c271964d41749feb10da762816c952ee.r2.cloudflarestorage.com: port 443 (TCP)
The WLAN must		Not be publicly accessible without a password (security consideration). Ideally be uniform across the entire department.
The WLAN may		Not require any usage terms to be accepted.
The signal strength must be		Between -30 dBm and -67 dBm in decibel milliwatt (refer to the reference table). Affected by structural measures, where different wall thicknesses can absorb different signal levels. Therefore, the signal must be measured in each room.

Reference table signal strength

30 dBm	50 dBm	60 dBm	67 dBm	70 dBm	80 dBm	90 dBm
Maximum signal strength.	Excellent signal strength.	Good signal strength.	Minimal signal strength required	Not a strong signal.	Unreliable signal strength.	Weak signal strength.
At this measurement level, an AccessPoint is likely to be nearby.			for applications that need a consistently stable WLAN signal.	It may be sufficient for checking emails.	You can probably connect to the network, but it will be insufficient for most online applications.	