HAM SIDEKICK STATION · EINSTEIN, THE AI ASSISTANT

FRONT · SIDE 1 OF 2

Use Einstein

New here? Get the station

Einstein (the default name: you choose its on-air name in Settings → Einstein & AI → Station agent → **On-air name**) listens to the radio with you. After each transmission it decides whether **your station** should speak, and writes exactly what it would say: a check-in, a reply, an answer. **You are always the control operator.** It only writes drafts until you switch a radio to **Send**. Not set up yet? See **Set up once** on side 2.

A · SWITCH IT ON FOR A RADIO (the Einstein switch on each radio's card)

Off	Einstein ignores this radio (the default)
Draft	Writes what it would say, at the top of the radio's column. **Nothing goes on the air.** You read it and say it yourself if you like it
Send	Says its drafts on the air in its voice. Offered only on a radio set up to transmit (side 2). You must be at the PC

B · WHAT IT DOES BY ITSELF

1. **Checks in** when net control opens check-ins to a station like yours
   Says your check-in line, then stops offering once net control logs you.
2. **Answers when called**: by your call or by its name (*"Einstein, what's the forecast?"*)
   A quick question gets a short answer at once.
3. **Thinks about a hard question**: says *"copy your question, working on it"*, then the card shows **Answer ready**
   In a net it waits for net control's *"comments or questions?"*, says it has a response, and reads it when told to go ahead. In a conversation it answers at the next pause. Up to 3 questions, in the order asked.
4. **Stays quiet** when it is not its turn, and always on *"break break"*, emergency or priority traffic
   Gives your call at the end and every 10 minutes, and says it is an automated assistant with you as control operator.

C · ASK IT YOURSELF

5. **What would you say now?** on its card: a draft for this moment, any time
   Never sent by itself. ▶ **Hear it** plays it in Einstein's voice on this PC only; 👍 👎 rate it.
6. **Chat & prepared...** → **Chat**: ask it anything, privately. **Nothing in the chat is transmitted**
   It knows the radio's frequency, your privileges, the net on now and who checked in. Tick **Think** for a harder question (up to a minute). Ask it for words to say: ▶ **Hear**, then **Save to Prepared**.
7. **Prepared** tab: words ready to say. **New talk...** writes a short training talk in parts
   Read and edit them, ▶ **Hear**, then **Approve these words**. Read them yourself, or on **Send**: **Send now**, or **Arm on this radio** and on the air say *"Einstein, present the topic"*, then *"continue"* for each part.
8. **Library** (what it reads: the manual, these cards, your notes and web pages) · **Sites** (your EOC, shelters, repeaters: `Name | lat, lon | antenna height`)
   Name two sites in Chat for the radio path between them. Both stay on this PC.

Turn over → side 2: Its Card, Sending, Set Up

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BACK · SIDE 2 OF 2

Its Card, Sending, Set Up

Share this card

THE YOUR TURN CHIP (top of Einstein's card on each radio)

Listening	Not its turn; the reason is shown
Check-ins open to you	A check-in is drafted
CALLED	Someone called you or Einstein: what they said, and a reply
Answer ready	A thought-out answer waits for its place
Checked in ✓	It will not check in to this net again

I checked in myself	You checked in on the air: it stops offering. **Not checked in** undoes it
Mute for this net	Silent until the net ends. **Unmute** undoes it

SENDING (a radio on Send)

> A draft to be said shows **Sending in 3... Stop (Esc)**. It goes out only while **you are at the PC** (keyboard or mouse in the last 3 minutes) and the frequency is clear. **Esc, Stop or any click drops the transmitter at once.** Every draft is checked in code against FCC Part 97 first; one that fails shows **Would not send** with the rule.

SET UP ONCE

1. **An xAI key** (optional): `console.x.ai` → API Keys → Create; add a little credit. Settings → **Einstein & AI** → **xAI key** → paste → Save key
   Without one: offline rules (no answers). Well under a cent a turn. Kept on this PC only.
2. Settings → **Einstein & AI** → open **Station agent (Einstein)** → tick **Enable the station agent**; fill in **On-air name**, **your first name**, **check-in line**, **license class**, **your region**
   Region = your state (and county): it answers a roll call by place only there.
3. **Its voice**: Settings → **Einstein's voice** → ▶ to try, pick one · Nets it must not join: Nets → the net → **Never checks in**
4. **Before the first Send, into a dummy load:** Radios... → **Transmit** (how it keys, Audio out, tick **Allow transmitting**) → **Transmit test**: tick *a dummy load is connected*, **Tone + ID**, set **Drive level** (about 3 kHz FM deviation; SSB ALC just touching), then **Phrase + ID**

WHEN SOMETHING LOOKS WRONG

No Einstein on a radio	Settings → Einstein & AI → Station agent → Enable the station agent; then **Draft** on that radio's card
No Send position	That radio is not allowed to transmit: Radios... → Transmit
"You are not at the station"	Move the mouse on the dashboard: Send waits for you
Amber **Offline rules**	No key or no internet: it checks in and acknowledges, no answers
Wrong turn	👎 it, so the ratings show what to fix. Never answers a roll call? Set **Your region**

Part of HAM Sidekick Station (MIT License). It transmits only on Send, on a radio you allowed, with you at the PC. Everything stays on this PC; questions go to xAI only with a key.