

Application Note: STAR and Quasar with new Apple Home View

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Purpose and scope

STAR controllers and the Quasar range work with Apple Home natively because every STAR device is a Matter 1.4 node using only standard device types and clusters. An owner pairs STAR once with the Home app and gets lights, fans, battery and energy tiles on the new Apple Home hub (Home view) with no Safier app in the loop. Adding a Quasar Master puts cabin air conditioning on the same screen as a standard Matter thermostat.

This note is for Safier engineering, dealers and boat builders. It covers:

- what Apple Home shows with STAR alone
- what can be added with Quasar Master
- how Termodinamica cabin air conditioning is captured over RS-485 and presented as a Matter thermostat
- the installer commissioning sequence

System reference: Termodinamica Bridge card register map IO05-35 Ed. 23 (Bridge firmware 8.14.13 to 8.14.14). Matter 1.4 device types and clusters as listed in the STAR-Rover endpoint table at the end of this note.

The Quasar range: ONE and Master

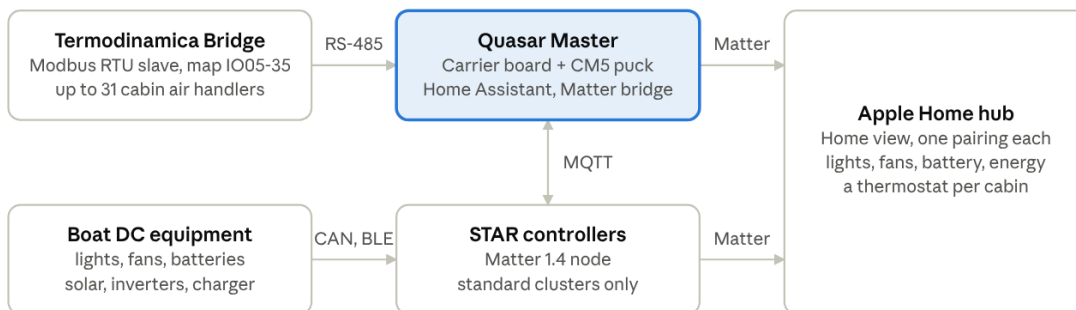
Quasar ONE and Quasar Master share one carrier board. The difference is a CM5 compute puck that slots into the carrier. Without the puck the board is a Quasar ONE; with the puck it is a Quasar Master running Home Assistant.

	Quasar ONE	Quasar Master
Hardware	Quasar Carrier board	Quasar Carrier board plus CM5 puck
Software	Quasar firmware	Quasar firmware plus Home Assistant on the CM5
Matter role	None (STAR is the Matter node)	Matter bridge for non-Matter equipment
RS-485 (Modbus RTU)	Available for telemetry	Captures the Termodinamica Bridge card
Apple Home with STAR	Lights, fans, battery, energy	Lights, fans, battery, energy, plus a thermostat per cabin
Upgrade path	Fit the CM5 puck in the field	n/a

The CM5 puck is the only field change. A boat shipped with Quasar ONE becomes a Quasar Master by fitting the puck and running the Home Assistant provisioning from the Safiery AI Configuration Service.

How the pieces fit

Two Matter nodes, one Home app: STAR for power, Quasar Master for cabins



System architecture · 2 Safiery Matter nodes, Multiple Apple Home View Displays

STAR carries the power and lighting endpoints straight to Apple Home. Quasar Master captures the Termodinamica Bridge over RS-485 and bridges each cabin into Home as a thermostat. The MQTT link between the two keeps Quasar in the loop on every STAR change, so the Quasar Glass displays and the Quasar Twin see the same state the owner sees in Home.

Apple View is around US\$300 each – good value for all its multi-media functionality.

Apple announced HomeView 13 October; it ships 13 November at US\$299 and is not sold in the EU. Safiery can source from USA directly. For boat builders, the multi-media music is integrated into the unit. No need to wire speakers through the cabins. Here is what it does, grouped by function.



Safiery is 100% Matter compliant, tested and approved by Connectivity Standards Alliance and validated for Apple Home.

Smart home control

- Central Home hub for HomeKit and Matter accessories: lights, locks, thermostats, cameras, scenes and automations
- Home Modular face for one-tap access to accessories
- Home Camera face that can livestream up to nine video feeds at once
- Built-in temperature and humidity sensors

Siri AI / Apple Intelligence

- Voice control of the home and apps, with far-field microphones
- With a paired Apple Intelligence iPhone or iPad, Siri AI takes action across apps and pulls personal context from Messages, Calendar, Music and so on
- Conversations sync and can be continued on another Apple device
- Adjustable voice expressiveness and pace

Multi-user and personalisation

- Face recognition for up to six people; the screen switches from a shared household view to that person's own home screen, apps and widgets
- **Personal content stays private**; shared albums and music are available to everyone, including guests
- Interface changes with distance: large and simple across the room, more detail up close
- Selectable faces: Photos, Flow (reacts to movement), Snoopy (reflects time and weather), Home Modular, Home Camera, interactive artwork

Communication

- FaceTime with Center Stage

- Intercom to other HomeView and HomePod units
- Messages

Audio and entertainment

- Spatial Audio from two full-range drivers plus woofer and passive radiators in the base
- Multiroom audio with HomePods; Handoff by placing an iPhone in front of it
- Music, Podcasts, and CarPlay-style audio and video apps streamed from a paired iPhone (Apple TV, Apple Music Classical, Apple News, Audiobooks, Spotify and other supported third-party apps)

Kitchen and daily use

- Converts web recipes into step-by-step instructions with hands-free timers and ingredient tracking
- Alarms, Timers, World Clock, Weather, Calendar, Reminders, Find My, Safari

Hardware

- 7-inch square Liquid Retina touch display, True Tone, 0.3 to 500 nits
- A18 chip, 8 GB RAM, aluminium body, tilting stainless hinge on the countertop model
- Countertop model in silver, starlight, rose pink and space grey; wall-mount model in silver and space grey with Schneider Home mounts

Notable limits – ONLY Native Apps allowed

- No App Store; only Apple's 15 built-in apps – this covers Safiery's STAR controllers and Quasar link.
- Can pair as "CarPlay" -enabled apps and widgets from a paired iPhone
- Some Siri AI features need an Apple Intelligence-capable iPhone or iPad nearby

What Apple Home shows with STAR alone

STAR exposes each function as a standard Matter device type, so Apple Home renders it with its own native tile. No custom endpoints are used.

Home tile	STAR endpoint	Matter device type	What the owner can do
Lights (one tile per channel)	1 to 4	Dimmable Light	On, off, dim
Colour light	5	Extended Color Light	Colour and brightness of the grouped RGBW channels
Fan	Output channel set to fan	Fan	On, off, speed
House battery	12, 13	Energy Storage Device	State of charge, charging or discharging
Solar, inverter, alternator	6 to 11	Energy Meter	Live watts, energy today
Whole boat energy	17 to 19	Aggregator	Total in, total out
Bidirectional motor generator	16	Energy Transfer Device	Power flow, on or off
Shore or EV charging	20	EVSE	Charge state, on or off

The Home view hub shows a 2 by 3 tile grid plus a camera panel. For a boat the recommended default layout is House Battery in the large tile, then Lights, Fan and Energy across the bottom row, with any onboard camera in the panel. Owners rearrange tiles in the Home app.

Energy tiles depend on Apple Home rendering the Matter energy clusters. Lights, fans and the Energy Storage state of charge are the safe set to promise in marketing; show the Energy Meter and Aggregator tiles as available where the Home app supports them.

Cabin temperature control with Termodinamica

Termodinamica air handlers do not speak Matter. Quasar Master reads the Termodinamica Bridge card over RS-485, holds one Home Assistant climate entity per cabin, and presents each as a Matter Thermostat device (0x0301) to Apple Home. The owner sees a standard thermostat tile per cabin: current temperature, setpoint, mode and fan speed.

The path has four steps:

1. **Modbus RTU capture.** The Bridge card is a Modbus slave on the Quasar Carrier RS-485 port. Quasar Master polls the per-unit read block (registers 200 + 10n for unit n) every 5 seconds: power, setpoint, fan speed, cabin air temperature, status, heater and humidity.
2. **Writes through the selection register.** The Bridge takes writes for one unit at a time: write the unit number to register 10, then setpoint to 12, fan speed to 13 or power to 11. Quasar Master serialises these behind one mutex so two cabins changed at once cannot cross.
3. **Home Assistant climate entity.** Each unit becomes a climate entity named by cabin (Owner Cabin, Guest Port, Saloon). The same entity already feeds the Quasar Glass comfort widget over the Home Assistant WebSocket, so Glass and Apple Home show the same state.
4. **Matter bridge.** The Home Assistant Matter bridge on the CM5 presents each climate entity as a bridged Thermostat endpoint with the Thermostat (0x0201), Fan Control (0x0202) and, where a probe is fitted, Relative Humidity Measurement (0x0405) clusters. Apple Home commissions the Quasar Master once and lists every cabin.

Engine box data from registers 140 to 190 (compressor speed, sea water temperature, gas and liquid pressures, absorbed watts and amps per compressor) is captured on the same poll but is not exposed to Matter. It feeds the Quasar Twin for warranty, service and energy management.

Register to cluster mapping

For cabin unit n (1 to 31) the read base address is 200 + 10(n - 1). Both Matter and the Bridge card use signed 16-bit hundredths of a degree Celsius, so temperatures pass through unscaled.

Matter cluster and attribute	Bridge register	Direction	Scaling and rules
Thermostat.LocalTemperature	base + 3 READ_AIR_IN	Read	Hundredths of °C, no scaling
Thermostat.OccupiedCoolingSetpoint and	base + 1	Read	Both attributes hold the same value

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Matter cluster and attribute	Bridge register	Direction	Scaling and rules
OccupiedHeatingSetpoint	READ_SP_ROOM		
Setpoint (write)	10 then 12	Write	Round to whole °C, clamp 1800 to 3000, write the rounded value back to the attribute
Thermostat.MinSetpointDeadBand, AbsMin and AbsMax limits	Fixed	Read	AbsMin 1800, AbsMax 3000 so the Home app greys out the rest
Thermostat.SystemMode	6 WRITE_MODE and 10 then 11 PWR	Read and write	Off = PWR 0; Cool = mode 8; Heat = mode 4; FanOnly = mode 16; Auto not offered
FanControl.FanMode	base + 2 READ_FAN_SPEED and 10 then 13	Read and write	Night and Vel 1 = Low; Vel 2 to 4 = Medium; Vel 5 to 7 = High; Auto = 8 (SyxthSense) or 9 (other)
FanControl.PercentSetting	10 then 13	Write	Map 1 to 100 percent across Vel 1 to Vel 6 (or 7)
RelativeHumidityMeasurement.MeasuredValue	base + 7 READ_HUMI	Read	Percent times 100; endpoint omitted when no probe
BridgedDeviceBasicInformation.Reachable	base + 4 READ_STATUS	Read	Bit 1 set = reachable; bit 0 or bit 3 set = unreachable, Home shows No Response
Thermostat.ThermostatRunningState (optional)	190 ACTIVE_ERROR, base + 6 HEATER_PWR	Read	Heater on = Heat stage 1 running; error bits raise a Quasar health message, not a Matter attribute

Two fan tables exist. Units with a SyxthSense cabin controller use Auto = 8; all others use Auto = 9 with Vel 7 at 8. Quasar Master detects the table per unit at commissioning by reading base + 2 after the installer sets the unit to Auto from its own panel.

Commissioning

A full install with STAR and Quasar Master takes two Matter pairings in the Home app, one for STAR and one for Quasar Master.

1. Power the STAR controllers and Quasar Master on the boat Wi-Fi provided by the Quasar Glass router. Apple Home needs the hub (HomePod, Apple TV or the Home view hub) on the same network.
2. Open the Home app, choose Add Accessory, scan the STAR Matter QR code. Assign each light and fan endpoint to a room named for its cabin.
3. Pair the Quasar Master Matter QR code. Each cabin thermostat appears as a separate accessory; assign it to the same room as that cabin's lights.
4. On the Termodinamica side, confirm every air handler shows bit 1 (connected) in its READ_STATUS register. A unit at bit 0 is not on the Bridge bus and will not appear in Home.
5. Set each unit to fan Auto from its own cabin panel so Quasar Master can read which fan table it uses.

6. Name the climate entities in Home Assistant before pairing. Matter carries the name into Home, and renaming later in Home does not flow back to Quasar.
7. Hand over: the owner's iPhone gets the Home invitation; the dealer keeps the Safiery AI Configuration Service tunnel for remote support.

A boat with STAR but without a Quasar Master stops at step 2. Fitting the CM5 puck later adds steps 3 to 6 with no change to the STAR pairing.

Design notes and limitations

Heating or cooling is system wide. Register 6 (unit function mode) carries no unit selection note, so the Termodinamica plant is in heat, cool or ventilation for the whole boat, as expected of a chilled water system. Every cabin thermostat in Home will show the same mode. Per cabin control is power, setpoint and fan.

Decision needed: whether a cabin thermostat in Home may change the plant mode, or whether mode stays a Quasar Glass and Quasar app action only. Recommended: Quasar only, with Home thermostats reporting mode as read only.

Setpoint resolution. Matter allows 0.5 °C steps; the Bridge accepts 1 °C steps in a range of 18 to 30 °C. Quasar Master rounds and writes the rounded value back so Home never shows a value the unit did not accept.

One writer at a time. The select-then-write sequence on registers 10 to 13 is not atomic. All Modbus writes from Home, Glass, the Quasar app and AI comfort routines pass through one queue on Quasar Master.

Comfort logic stays in Quasar. Apple Home is a control surface. Cabin occupancy from the Safiery Occupancy and Time of Flight bluetooth, the morning comfort check-in and energy aware setbacks run in Quasar Master and simply update the climate entity. Home shows the result.

Engine box telemetry is not in Home. Compressor speed, sea water temperature, pressures and absorbed watts and amps (registers 140 to 187) and the active error word (190) go to Quasar only.

Bridge firmware. Register map IO05-35 Ed. 23 applies to Bridge 8.14.13 and 8.14.14. Check the Bridge version at commissioning; a later edition may move or add registers.

Reference: STAR Matter 1.4 endpoint table

From the STAR-Rover Clusters and Endpoints with Matter specification. All device types and clusters are standard Matter 1.4; CAN, NMEA 2000, BLE and MQTT traffic stays internal and is not exposed to Matter.

Endpoint	Component	Matter device type	Server clusters
0	Root node	Root Device	Basic Information, General Diagnostics, OTA Software Update, Network Commissioning, Descriptor
1 to 4	Output channels 1 to 4	Dimmable Light	On/Off, Level Control, Descriptor

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Endpoint	Component	Matter device type	Server clusters
5	RGBW light (grouped)	Extended Color Light	On/Off, Level Control, Color Control, Descriptor
6 to 11	Energy meters 1 to 6 (solar 1 to 3, inverter 1 and 2, BMG or spare)	Energy Meter	Electrical Measurement, Power Source, Descriptor
12, 13	Battery systems 1 and 2	Energy Storage Device	Power Source, Electrical Measurement, Power Configuration, Descriptor
14, 15	DC-DC converters 1 and 2	Energy Transfer Device	Electrical Measurement, Power Source, On/Off, Descriptor
16	Bidirectional motor generator	Energy Transfer Device	Electrical Measurement, Power Source, On/Off, Descriptor
17 to 19	Energy aggregators 1 to 3 (solar plus battery, all inverters, whole system)	Aggregator	Electrical Measurement, Power Source, Descriptor
20	<i>Electric Tender charger (MCZero)</i>	<i>EVSE Native integration</i>	<i>Electrical Measurement, Power Source, Power Configuration, On/Off, Descriptor</i>

Thermostat endpoints for cabins are presented by Quasar Master, not STAR.