

C.A.T.A.S.T.R.O.P.H.E.™ Tablet Production RFQ

Quote-ready specification sheet for rugged emergency-response tablets

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1. RFQ Objective

Dingfelder Enterprises is requesting production quotes for rugged C.A.T.A.S.T.R.O.P.H.E. tablets used as emergency-response endpoints in A.I.R.O.N. deployments. Vendors shall quote both Android and Windows options where available. Each option must meet the mandatory communications, location, kiosk, security, power, and ruggedness requirements listed below.

The tablet is not a general-purpose consumer device. It is a locked, emergency-ready industrial device intended to remain available during facility incidents, communications failures, machine events, safety events, responder handoffs, and tablet-finder recovery scenarios.

2. Quote Options Requested

Option	Build Type	Required Quote Scope
A	Android rugged kiosk tablet	Primary recommended path. Quote rugged Android Enterprise/dedicated-device capable tablets with full mandatory communications hardware, dock, charger, provisioning, and fleet management options.
B	Windows rugged kiosk tablet	Customer-IT alternate path. Quote rugged Windows 11 Pro/Enterprise/IoT-capable tablets with assigned-access/kiosk support, full mandatory communications hardware, dock, charger, provisioning, and fleet management options.
C	Enhanced emergency field unit	Optional upgrade concept. Quote high-visibility shell, handle, strap, emergency label set, asset serialization, enhanced speaker/alert hardware, and wall-dock package if available.

3. Mandatory Communications and Location Baseline

The following capabilities are mandatory on every production tablet. They shall not be quoted as optional add-ons unless the vendor is separating base tablet cost from accessory or service-plan cost. Any exception must be clearly identified as a non-compliance item.

Capability	Status	Required Purpose	Vendor Must Identify
Wi-Fi	Mandatory	Starlink connection, VOIP, A.I.R.O.N./V.A.U.L.T. sync, software updates during approved maintenance windows.	Wi-Fi version, supported bands, security support, roaming behavior.
Bluetooth	Mandatory	Alternate short-range connection path to the A.I.R.O.N. base when Wi-Fi is unavailable.	Bluetooth version, BLE/classic support, pairing controls, supported profiles/APIs.
GPS/GNSS	Mandatory	Constant tablet location, tablet finder, responder awareness, Google Maps/facility map projection, last-known recovery.	Supported constellations, location accuracy, indoor/assisted modes, update interval support.
LTE/5G Cellular	Mandatory	Off-site emergency data fallback, SMS path, tablet tracking, facility/responder communications when Wi-Fi/Starlink/local infrastructure is unavailable.	LTE minimum, 5G preferred; carrier bands, SIM/eSIM support, carrier certification, antenna options.
SMS/Text Messaging	Mandatory	Emergency text alerts, responder/user notification, fallback communication, tablet-finder messages.	Native cellular SMS, carrier SMS, or approved gateway; queue/resent behavior; logging support.
Frequent Location Snapshot	Mandatory	Persistent last-known tablet location with timestamp, battery, connection state, and device status.	Configurable refresh intervals, offline storage method, export/API capability.

4. Emergency Communications Behavior

- Wi-Fi shall support Starlink-based internet connectivity and VOIP calling or push-to-talk workflows.
- Cellular shall provide independent off-site fallback for emergency data, SMS, location reporting, and fleet visibility.
- SMS shall function as an emergency communication channel when Wi-Fi/VOIP is not available.
- Bluetooth shall provide a local fallback path between the tablet and the A.I.R.O.N. base station if Wi-Fi is unavailable.
- The tablet shall maintain and refresh a last-known-location snapshot frequently. The snapshot shall include tablet ID, timestamp, GPS/GNSS position, battery state, communication state, and device status.
- Failed outbound messages or event updates should queue locally and transmit automatically when a valid communication path returns.
- Vendor shall identify whether the tablet supports cellular voice, cellular data only, SMS, eSIM, physical SIM, dual SIM, or carrier-specific activation requirements.

5. Hardware Requirements - Shared Baseline

Category	Minimum Requirement	Preferred Requirement	Vendor Response Needed
Display	10-inch class touch display	10-12 inch, 700-1000 nits, outdoor readable	Size, brightness, glass type, glove/wet-touch support.
Ruggedness	Industrial rugged tablet, IP65 class, 4 ft drop class	IP67, MIL-STD-810H class, 5-6 ft drop class	Ingress rating, drop rating, certifications, test standard.
Battery	6-hour usable runtime	Full-shift battery, hot-swap or extended battery option	Battery Wh, runtime, charging time, hot-swap details.
Charging	USB-C or dedicated charger	Wall dock, desktop dock, multi-bay dock, vehicle dock option	Dock options and per-unit cost.
Camera	Rear camera 8 MP	13 MP+ rear camera, autofocus, barcode/QR capable	Camera specs, SDK availability, scanner option.
Audio	Speaker and microphone	Loud industrial speaker, noise handling, VOIP-ready mic	Speaker dB if available, mic/noise details.
Alerts	Visual/audible notifications	Haptic, bright visual indicators, optional external beacon	Alert capabilities and accessory options.
Physical handling	Hand strap or case available	Handle, shoulder strap, glove-friendly grip, high-visibility casing	Accessories and pricing.
Environmental	Normal industrial indoor operation	Wide temperature operation and humidity resistance	Operating temp range, storage temp, humidity rating.
Serviceability	Replaceable charger/accessories	Replaceable battery, field-swap accessories, documented repair path	Warranty, repair process, spare parts availability.

6. Android Option - Required Response

Quote rugged Android tablets capable of enterprise/dedicated-device kiosk operation. Android is the preferred production direction when a locked, single-purpose emergency endpoint is the primary goal.

Item	Requirement / Response Needed
Operating system	Android Enterprise capable. Identify Android version, lifecycle/support window, and security update policy.
Kiosk mode	Dedicated-device or equivalent kiosk mode required. Vendor shall identify supported MDM/provisioning method.
Processor/RAM/storage	Minimum 6 GB RAM / 128 GB storage. Preferred 8 GB+ RAM / 256 GB storage.
Update control	No surprise production updates. Updates shall be controllable by policy and scheduled for maintenance windows.
Provisioning	Quote repeatable provisioning/re-provisioning process for fleet setup, replacement devices, and pilot rollout.

Item	Requirement / Response Needed
Security	Encryption, restricted settings, restricted app installation, restricted notifications, remote lock/wipe if managed.

7. Windows Option - Required Response

Quote rugged Windows tablets for customers who prefer Windows, Microsoft management, Windows-based support practices, or customer IT alignment.

Item	Requirement / Response Needed
Operating system	Windows 11 Pro, Windows 11 Enterprise, or Windows IoT Enterprise. Identify version and support lifecycle.
Kiosk mode	Assigned-access/single-app or restricted shell support required. Identify exact implementation.
Processor/RAM/storage	Minimum Intel N100/N200 class or equivalent, 8 GB RAM, 128 GB SSD. Preferred i5-class, 16 GB RAM, 256 GB SSD.
Update control	No surprise production updates. Windows updates shall be controllable and scheduled for maintenance windows.
Provisioning	Quote imaging/provisioning process, recovery media, replacement tablet setup, and fleet management compatibility.
Security	BitLocker/device encryption where supported, local admin lockdown, app restrictions, browser/settings restrictions.

8. Kiosk, Security, and Fleet Management Requirements

- Tablet must boot or wake directly into the approved C.A.T.A.S.T.R.O.P.H.E. app experience without exposing general consumer functions.
- Settings, app store, web browsing outside the allowed environment, unrelated notifications, and user-driven configuration changes must be blocked or controlled.
- Device must support encryption, authentication policy, asset identity, serial number tracking, remote lock/wipe where supported, and logged configuration changes.
- Vendor shall identify MDM compatibility, included management software, license cost, per-device management cost, and any recurring fees.
- Vendor shall identify how offline operation is handled when Wi-Fi, cellular, or Starlink is unavailable.

9. Location, Tablet Finder, and Mapping Requirements

- GPS/GNSS shall support persistent tablet location and tablet-finder workflows.
- Location snapshots shall be refreshed frequently during active/emergency use and at a configurable interval during standby/fleet monitoring.
- Each snapshot shall include tablet ID, timestamp, location, accuracy if available, battery state, Wi-Fi/cellular/Bluetooth state, and last communication path.
- Tablet location shall be usable for Google Maps projection and future facility-map/digital-twin projection.
- Vendor shall identify any limitations to GPS/GNSS indoors, assisted-GPS behavior, and cellular/Wi-Fi location fallback behavior.

10. Accessories and Optional Adders to Quote

Accessory / Adder	Required or Optional	Quote Notes
Wall-mounted charging dock	Required quote line	Quote per tablet and multi-unit facility pricing.
Desktop charging dock	Required quote line	Quote if separate from wall dock.
Multi-bay charger	Required quote line	Quote for pilot and fleet staging.
Spare battery set	Required quote line if removable battery	Quote 1 spare battery per tablet and 2 spares per tablet.
Hand strap / shoulder strap / handle	Required quote line	Emergency field use and industrial handling.
Rugged case / high-visibility shell	Required quote line	Prefer bright emergency color option if available.
Screen protector	Required quote line	Quote installed and replacement packs.
Vehicle mount	Optional adder	Responder/facility vehicle option.
Barcode/QR scanner	Optional adder	SDS/MSDS, asset ID, incident tagging.
External alert/speaker/beacon	Optional adder	Emergency alert visibility/noise environments.
Branding and serialization	Required quote line	Boot screen, label, asset tag, QR asset ID, case marking.

11. Carrier and SMS Contract Questions

Dingfelder Enterprises intends to pursue mass/enterprise cellular contract options with nationwide carriers. Hardware quotes shall clearly identify carrier compatibility and activation requirements.

- Which U.S. carrier bands are supported?
- Is the device carrier-certified? If yes, identify carrier certifications.
- Does the device support physical SIM, eSIM, or both?
- Does the device support native SMS? If not, identify the approved SMS gateway path.
- Can SMS include tablet ID, GPS/GNSS location, timestamp, battery state, and emergency event code?
- Can failed SMS/data messages queue and resend automatically?
- Does the vendor offer or support enterprise carrier procurement, activation, staging, or lifecycle management?
- What recurring monthly costs should be expected for device management, cellular service support, or SMS gateway use?

12. Production Quantities and Price Breaks

Quantity	Purpose	Vendor Price Requested
1 unit	Prototype/sample evaluation	Unit price, lead time, freight, setup charges.
5 units	Pilot facility package	Unit price, provisioning, docks, accessories, management costs.

Quantity	Purpose	Vendor Price Requested
10 units	Small deployment	Price break and production lead time.
25 units	First production run	Price break and production lead time.
50 units	Scaled production	Price break and production lead time.
100 units	Volume target	Price break, capacity, support model.

13. Required Quote Line Items

1. Base Android rugged tablet meeting the mandatory communications baseline.
2. Base Windows rugged tablet meeting the mandatory communications baseline.
3. Docking/charging package per tablet and per facility.
4. Spare battery package, if removable batteries are supported.
5. Rugged handling package: case, strap, handle, screen protector, high-visibility option.
6. MDM/provisioning/kiosk setup cost, including per-device recurring costs if applicable.
7. Branding, serialization, QR asset tag, boot/splash screen, and labeling cost.
8. SMS/cellular enablement requirements and any recurring platform/gateway costs.
9. Warranty, extended warranty, replacement device process, repair turnaround, and spare parts package.
10. Prototype lead time, pilot lead time, production lead time, and volume capacity.

14. Acceptance Test Requirements for Sample Unit

Test	Pass Requirement	Notes / Evidence Requested
Cold boot	Device boots directly into locked C.A.T.A.S.T.R.O.P.H.E. kiosk experience.	Video or live demonstration preferred.
Wake from sleep	Device wakes without exposing settings, app store, browser, or unrelated apps.	No login confusion during emergency use.
Wi-Fi/Starlink path	Device connects over Wi-Fi and supports VOIP/data workflows.	Demonstrate connection and audio path.
Cellular fallback	Device sends/receives emergency data path over cellular with Wi-Fi disabled.	Identify carrier/SIM used.
SMS	Device sends emergency SMS including tablet ID, timestamp, battery, and location.	Show native or gateway behavior.
GPS/GNSS	Device reports location and refreshes last-known snapshot.	Show map projection or exported snapshot.
Bluetooth fallback	Device connects to a local A.I.R.O.N. base or test endpoint with Wi-Fi disabled.	Show supported Bluetooth method/API.
Offline operation	Device retains local emergency content and queues failed updates/messages.	Demonstrate after disabling Wi-Fi/cellular.
Battery	Device meets quoted runtime and charges reliably in dock.	Provide battery report and dock cycle.

Test	Pass Requirement	Notes / Evidence Requested
Rugged handling	Device meets quoted rugged/drop/IP rating.	Provide certification/test documentation.
Re-provisioning	Replacement tablet can be restored from documented provisioning process.	Required for fleet support.

15. Vendor Response Format

Please return the following information with the quote:

- Manufacturer and model number for each quoted Android and Windows tablet.
- Detailed specification sheet for each model, including wireless, cellular, GPS/GNSS, ruggedness, display, battery, camera, and docking details.
- Completed compliance notes against each mandatory requirement above.
- Itemized pricing for prototype, 5, 10, 25, 50, and 100 unit quantities.
- Separate pricing for accessories, docks, chargers, spare batteries, MDM/provisioning, branding, and support.
- Lead times for sample, pilot, and production quantities.
- Warranty, repair, replacement, and support terms.
- Carrier compatibility and cellular/SMS provisioning notes.
- Any exceptions, non-compliant items, required substitutions, or recommended upgrades.

16. Cover Email Template

Subject: RFQ - Rugged C.A.T.A.S.T.R.O.P.H.E. Emergency Tablets - Android and Windows Options

Hello,

Dingfelder Enterprises is requesting production pricing for rugged emergency-response tablets for our C.A.T.A.S.T.R.O.P.H.E. / A.I.R.O.N. deployment hardware.

We are requesting both Android and Windows rugged tablet options. Please treat Wi-Fi, Bluetooth, GPS/GNSS, LTE/5G cellular, and SMS/text messaging as mandatory baseline hardware/capability requirements, not optional add-ons.

Please quote prototype, 5, 10, 25, 50, and 100 unit quantities, including docks, charging accessories, straps/cases, spare batteries where applicable, kiosk/provisioning support, MDM/fleet-management options, branding/serialization, warranty, lead time, and any recurring software or cellular/SMS costs.

Please also identify carrier compatibility, SIM/eSIM support, SMS implementation, and whether you can support enterprise or nationwide carrier fleet activation.

Thank you,

Walter W. Dingfelder

Dingfelder Enterprises

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17. Immediate RFQ Decision Notes

- Quote Android as the preferred production standard for a locked, purpose-built emergency tablet.
- Quote Windows as the customer-IT alternate standard for facilities that require Microsoft/Windows alignment.
- Do not accept any quote that omits cellular, SMS, Wi-Fi, Bluetooth, or GPS/GNSS from the baseline tablet package without a clearly documented exception.
- Treat wall-docking, charging, handling accessories, provisioning, and asset serialization as part of the production package, not afterthoughts.