

Quasonix has been delivering Commercial Off The Shelf (COTS) products into the Defense and Aerospace markets since 2004. As a provider of COTS products, we generally do not accept Statements of Work or typical flow-down requirements. In most cases the assemblies and subassemblies for your order are already work-in-process in our plant so that it is impossible to customize the selection of suppliers, assembly processes or other aspects of the manufacturing process typically requested in “flow-downs”.

As a COTS product, all aspects of the product design and manufacture are controlled by Quasonix and updated whenever necessary to provide you with industry leading transmitters, receivers and other telemetry products. Quasonix defines everything about our COTS products: schematics, layouts, parts, materials, production procedures, test methods, documentation, packaging, and anything else that is part of our normal COTS product delivery cycle. In short, we provide a C of C that says our product does what we say it does, and it's up to the customer to decide if that makes the product useful to the customer’s program. We certainly hope so.

As a convenience to those customers that are accustomed to flowing down quality requirements, we provide these Quality Notes outlining how Quasonix processes correspond to the requirements that are frequently found in customer quality notes.

Subject	Quasonix Approach
Governing Terms	Quasonix provides Commercial Off The Shelf (COTS) products under these terms only. Buyer terms are uniformly rejected unless specifically agreed to in writing. All exceptions to these terms will be quoted separately from the COTS product being purchased.
Quality System Certification	Quasonix has been continuously certified to ISO9001 since 2014, upgrading to ISO9001:2015 in 2016. Our certificate is available on our web site at www.quasonix.com/documentation/1

Subject	Quasonix Approach
Design Change Control	<p>Quasonix continually updates and improves our products to maintain our technological edge, remove aging parts, and improve reliability. Accordingly, we are the sole design authority including but not limited to materials, specifications, and test requirements. Quasonix warrants that all products meet all published specifications.</p> <p>Design changes are reviewed and approved internally using our established ECN process. Changes do not require customer review or approval.</p> <p>However, our standard practice is to ensure that all units provided on a single order are of the same configuration. Items delivered on subsequent orders may be of a later configuration that still meets the form, fit and function of previous versions.</p>
Process Control	<p>Quasonix maintains complete control of the manufacturing processes including but not limited to materials, tooling, assembly processes and test processes. Processes may be updated or improved at any time.</p>
Material Review and Nonconformance Handling	<p>Quasonix maintains complete authority over all MRB issues. We use only parts and assemblies that meet 100% of the specifications. Material is never dispositioned as "Repair".</p> <p>In the unlikely event that we discover a nonconformance affecting form, fit or function on a product shipped to a customer, we will notify the designated customer representative by email with a description of the nonconformance, the specific product(s) affected and a recommended course of corrective action.</p>

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Supplier Control	All suppliers are vetted through years of actual quality and delivery history. We use a very limited number of key suppliers for custom items, in addition to numerous OEMs and Authorized Distributors for COTS parts. New suppliers are added only under the process defined in our purchasing policy. The performance of key suppliers is monitored and reviewed quarterly by Management.
Counterfeit Prevention	Quasonix has a counterfeit prevention plan that can be summed up as ‘We buy only from OEMs or their Authorized Distributors. Ever.’
Flowdowns	<p>With a few exceptions, Quasonix does not provide flow-downs. We use suppliers with a demonstrated track record of quality and we don’t interfere with their processes.</p> <p>The fine print on our purchase orders includes a DPAS notice; a requirement to meet industry standard ESD practices for packaging, etc.; a notice of delegated inspections and record retention requirements; and a notice to take reasonable steps to prevent counterfeits.</p>
Certificate of Conformance	<p>With each product shipped we provide a Certificate of Conformance signed by a responsible authority. The C of C specifies, as applicable,</p> <ul style="list-style-type: none"> - Customer PO Number - Part Number and Revision - Quantity Shipped - Serial Numbers of subject units

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Traceability	Quasonix processes provide material traceability only to the purchase order level. We cannot provide lot or date code traceability and cannot guarantee homogeneous lots of component parts.
Record Retention and Access	<p>Quasonix retains all records for a minimum of 20 years.</p> <p>Each unit is shipped with a copy of the unit ATP report. All other records are internal, proprietary documents. Delivery of any additional records will be reviewed and quoted on a case-by-case basis.</p>
First Article Inspection	The first article for all Quasonix products was produced years ago because of the modular design and incremental design improvements made to the products. Accordingly, any First Article Inspection requirement is 'Not Applicable'.
Source Inspection	Quasonix ships each item as it is completed in the continuous production flow. Support for Source Inspection by the Customer will be quoted on a case-by-case basis. Only short notice (days) can be provided.
RoHS / Pure Tin	All Quasonix products are manufactured using tin/lead solder. COTS components used in our products may have leaded or lead-free terminations.

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Cybersecurity	As a provider of COTS products, Quasonix is not required to be compliant with NIST 800-171 or any other specific IT standard. While we take comprehensive precautions to protect our proprietary product data, we cannot represent that our systems meet any particular standard. Do not send us CUI. We assume anything you send us is not CUI. If you absolutely must send us CUI, please provide hardcopy by USPS or FedEx.
Corrective Actions	Quasonix has an established process for Corrective Actions in appropriate situations. The process includes root cause analysis, action planning, implementation and verification. Customer input is solicited only in the case of a field failure.
Calibration	All test equipment is calibrated by a lab certified to ISO 17025 or by the original manufacturer; or is verified internally with NIST traceability.
Parts Obsolescence	Quasonix continually updates and improves its product offerings, including upgrading to the latest devices so that obsolescence is rarely an issue. We use a First In First Out system in our stockroom.
ESD	Quasonix has documented ESD Work Instructions that require grounded workstations and the use of wrist straps by all operators handling ESD sensitive items. Straps are tested using either continuous monitoring devices or periodic testing. ESD sensitive material, including purchased material, must be stored and transported in ESD-safe packaging. "Pink poly" is never used as an ESD protective material.

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FOD	Quasonix has documented Work Instructions describing the steps we take to mitigate FOD. Operators are responsible for their own work stations and ensuring that all product is handled with appropriate care. FOD habits are assessed on a regular basis and reported to Management.
Operator Certifications	All operators performing soldering on or inspection of circuit card assemblies are certified to either IPC-A-610 or J-STD-001, or both.
Printed Wiring Boards	Our circuit boards are purchased to IPC Class 2 or Class 3 standards, per engineering prints.
Acceptance Test Procedures (ATP)	<p>Quasonix has well established, fully automated acceptance test procedures for all of our products. ATP tests are fully controlled by Engineering and every unit is 100% tested. The ATP suite is updated regularly at the discretion of Quasonix to ensure that all new features are fully tested. Product testing includes defined thermal cycle, burn-in and vibration stresses. Customized stress screening will be quoted on a case-by-case basis.</p> <p>Each unit shipped includes a copy of the ATP results for that unit.</p>
Facility Access	Support for scheduled customer visits will be quoted on a case-by-case basis.