

PRODUCT LIST 2008:

Products	
Product Name	Description / Notes
Analog Current Measurement Modules	
QA-1000	Analog IDD monitor (50mA max, 1.5MHz BW)
QA-1000HC	High current analog IDD monitor (2A max, 5MHz BW)
Basic IDDQ monitor modules with digital interfacing for measurement & pass/fail application	
QD-1011Lite	Basic IDDQ measurement module. Module can have a measurement range in the range from 100µA up to 10mA
QD-2000	Basic Quad channel IDDQ measurement module with measurement value output. Module can have a measurement range in the range from 10µA up to 30mA
QD-1011HCLite	Basic High Current IDDQ measurement module. Module can have a measurement range in the range from 50mA up to 2A.
Advanced configurable IDDQ / ISSQ measurement modules with digital interfacing, on-board data storage and data processing and decision making capabilities supporting various advanced IDDQ / ISSQ test strategies like Delta-IDDQ, relative IDDQ, Current Ratios, etc.	
QD-1011	Advanced IDDQ measurement module. Module can store up to 500 measurement results and can have a measurement range in the range from 100nA up to 30mA. Module produces meaningful measurement results for standard (0.5V < VDUT < 7V) (DUT supply) voltage applications.
QD-1012	QD-1011 based IDDQ measurement module adapted for low (VDUT < 0.5V) (DUT supply) voltage applications.
QD-1013	QD-1011 based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.
QD-1020	QD-1011 based IDDQ measurement module adapted for multi-site applications with resource sharing.
QD-1022	QD-1020 based IDDQ measurement module adapted for low (VDUT < 0.5V) (DUT supply) voltage applications.
QD-1023	QD-1020 based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.
QD-1030	Advanced ISSQ measurement module for ground current measurement applications. Module can store up to 500 measurement results and can have a measurement range in the range from 100nA up to 30mA. Module application is (DUT supply) voltage level independent and can be used for high voltage as well as low voltage applications.
QD-1040	Advanced IDDQ measurement module with embedded supply sense line switching capabilities not affecting measurement time. Module can store up to 500 measurement results and can have a measurement range in the range from 100nA up to 30mA. Module produces meaningful measurement results for standard (0.5V < VDUT < 7V) (DUT supply) voltage applications.

Product Name	Description / Notes
<p>Advanced configurable high current IDDQ / ISSQ measurement modules with digital interfacing, on-board data storage and data processing and decision making capabilities supporting various advanced IDDQ / ISSQ test strategies like Delta-IDDQ, relative IDDQ, Current Ratios, etc.</p>	
QD-1011HC	<p>High Current QD-1011 based IDDQ module. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module produces meaningful measurement results for low and standard (0 < VDUT < 7V) (DUT supply) voltage application. Module can store up to 500 measurement results.</p>
QD-1013HC	<p>QD-1011HC based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.</p>
QD-1020HC	<p>High Current QD-1020 based IDDQ measurement module. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module produces meaningful measurement results for low and standard (0 < VDUT < 7V) (DUT supply) voltage application. Module can store up to 500 measurement results.</p>
QD-1023HC	<p>QD-1020HC based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.</p>
QD-1030HC	<p>High Current QD-1030 based ISSQ measurement module. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module application is (DUT supply) voltage level independent and can be used for high voltage as well as low voltage applications. Module can store up to 500 measurement results.</p>
QD-1011HC-24	<p>High Current QD-1011 based IDDQ module, offering a 24bit measurement result. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module produces meaningful measurement results for low and standard (0 < VDUT < 7V) (DUT supply) voltage application. Module can store up to 320 measurement results.</p>
QD-1013HC-24	<p>QD-1011HC-24 based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.</p>
QD-1020HC-24	<p>High Current QD-1020 based IDDQ measurement module, offering a 24bit measurement result.. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module produces meaningful measurement results for low and standard (0 < VDUT < 7V) (DUT supply) voltage application. Module can store up to 320 measurement results.</p>
QD-1023HC-24	<p>QD-1020HC-24 based IDDQ measurement module adapted for high (VDUT > 7V) (DUT supply) voltage applications.</p>
QD-1030HC-24	<p>High Current QD-1030 based ISSQ measurement module, offering a 24bit measurement result.. Module can have a measurement range in the range from 50mA to 2A and can have measurement ranges beyond 2A when used in combination with an external sensing element. Module application is (DUT supply) voltage level independent and can be used for high voltage as well as low voltage applications. Module can store up to 320 measurement results.</p>



The **Current** Test Company

Product Name	Description / Notes
Advanced configurable IDDT measurement modules with digital interfacing, on-board data storage and data processing capabilities.	
QT-1411-1K	Transient IDDT measurement module with digital interface for transient and dynamic current measurement applications. Module samples the current waveform at sample rates from 1MHz up to 50MHz and has 1K sample memory.
QT-1411-256K	Transient IDDT measurement module with digital interface for transient and dynamic current measurement applications. Module samples the current waveform at sample rates from 1MHz up to 50MHz. On-board data storage capability for up to 256K samples, supporting full IDDX signature analysis.

Services / Packages	
Service Name	Description / Notes
Evaluation Rental Package	Module, configured according to customer requirements, is provided for evaluation purposes. A rental fee per module is charged. Measurement module remains property of Q-Star Test and has to be returned at the end of the rental period (typical 2, max 3 months). The rental fee is deducted from the module sales price if the measurement module is bought during or at the end of the evaluation rental period (Take-over Option). If no use is made of the Take-over Option and if the module is not returned at the end of the rental period then the module sales price is charged in addition.
Start-up Support Package - Light -	The Start-up Support package –Light– comprises a basic measurement module, configured according to customer requirements, interface board design review with respect to module connectivity, test pattern/program review with respect to module communication/control insertion, and 2 days on-site debugging and support.
Start-up Support Package - Standard -	The Start-up Support package –Standard– comprises an advanced basic measurement module, configured according to customer requirements, interface board design review with respect to module connectivity, test pattern/program review with respect to module communication/control insertion, and 2 days on-site debugging and support.
Teseda QD-1011 Bundle	Set of three (3) QD-1011 modules with different measurement ranges for use with Teseda and loaded with Teseda compliant firmware. Typical bundles are: <ul style="list-style-type: none"> • Bundle_A: 1x 100µA/500nF, 1x 1mA/2µF, 1x 10mA/10µF • Bundle_B: 1x 1mA/2µF, 1x 10mA/10µF, 1x 30mA/10µF
QD-xxxx Module firmware/hardware upgrade	Upgrade of module firmware and/or hardware. For a given module a maximum of 2 hardware modifications (measurement range adaptation) is possible. There is no limitation on firmware upgrades.
Consulting	Consulting services --- <i>Travel & subsistence at cost.</i>
Training	Training services --- <i>Travel & subsistence at cost.</i>
Technical Support Agreement	Application and technical support on a regular base
Test	Test program development, test program engineering and test services
Engineering	Engineering services for the design, development and manufacturing of customer specific solutions (electronic test and measurement related), prototype development and small series production.

Demo Units	
Product Name	Description / Notes
QD-1011 demo	QD-1011 Demo unit, includes demo unit interface (HW), Demo SW, Demo DUT devices, and QD-1011.
QA-1000 demo	QA-1000 Demo unit, includes demo unit interface (HW), Demo SW, Demo DUT devices, and QA-1000.

OBSOLETE PRODUCT LIST:

Product Name	Description / Notes
IDDQ measurement modules targeted for Pass/fail applications	
QD-1000	Single Chip IDDQ monitor
QI-0003	QD-1000 application Module – Single 5V supply
QI-0004	QD-1000 application Module – auto-configuration
Basic IDDQ monitor modules with digital interfacing for measurement & pass/fail application	
QD-1010Lite	Basic IDDQ measurement module. Module can have a measurement range in the range from 100µA up to 10mA
QD-1010HCLite	Basic High Current IDDQ measurement module. Module can have a measurement range in the range from 50mA up to 2A.
Advanced configurable IDDQ / ISSQ monitor modules with digital interfacing, on-board data storage and data processing and decision making capabilities supporting various advanced IDDQ / ISSQ test strategies like Delta-IDDQ, relative IDDQ, Current Ratios, etc.	
QD-1010	IDDQ monitor module. Module can store up to 50 measurement results and can have a measurement range in the range from 100µA up to 30mA.
QD-1010HC	High Current QD-1010 based IDDQ module; can have a measurement range in the range from 50mA to 2A.
Advanced configurable IDDT monitor modules with digital interfacing and data processing capabilities.	
QT-1410	Transient IDDT monitor with digital interface for transient and dynamic current measurement applications. Module samples current waveform at sample rates up to 50MHz.

GENERAL NOTES:

- Obsolete products are still available for existing customers.
- Modules are delivered with Data Pack [Datasheet, (Firmware related) Application notes, Product note], Hardware Manual, WGL Example Pack and STIL Example Pack.
- A VHDL simulation model is available upon demand (at an extra cost)
- Standard Product Prices include base e-mail based support.
 - On-site support is charged at consulting rates.
 - For extended or premium technical support a fee is due in the context of a Technical Support Agreement.
 - For special hardware tunings or custom configured firmware an additional fee is charged