

RTX2300 ACCESSORIES

FREQUENCY COUNTER ADD-ON MODULE
DATA SHEET

The frequency counter add-on module is an optional instrumentation module for the RTX2300 Smart ATE unit which enhances its test capabilities whilst reducing the number of separate stand-alone instruments needed in the ATE solution.

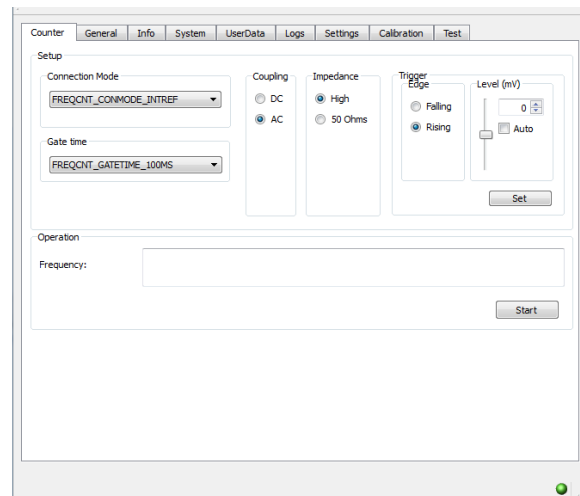
RTX2300 FREQUENCY COUNTER

The frequency counter enables the user to perform basic and accurate frequency measurements.

The frequency counter module is available in two different variants a standard version and a high-stability version. Both versions are designed to be mounted in the instrumentation area located in the rear compartment of the RTX2300 Smart ATE and can utilize either an internal or external reference clock.

Both frequency counter modules cover up to 50 MHz. The standard version of the frequency counter module supports a time base accuracy of 1 ppm, whereas the high-stability version has an extremely low frequency deviation with a time base accuracy of less than 0.1 ppm.

Through the GUI of the RTX2300 Smart ATE it is possible to control the frequency counter.



Extract of the Windows User Interface

TECHNICAL SPECIFICATIONS

DESCRIPTION	SPECIFICATIONS
VOLTAGE RANGE	10 Vpp
SIGNAL THRESHOLD	100 mVp
MEASUREMENT RESOLUTION	0.1 Hz
MEASUREMENT ACCURACY	0.05 ppm
INPUT COUPLING	AC/DC
ZIN (INTERNAL FREQUENCY COUNTER)	50 ohm / >100 ohm
CAPCITIVE LOAD (INTERNAL FREQUENCY COUNTER)	10 pF (max.)
FREQUENCY RANGE	1 Hz - 50 MHz
INTERNAL REFERENCE CLOCK	10 MHz
INTERNAL REF. CLOCK TOLERANCE	
STANDARD VERSION	+/- 1 ppm
HIGH-STABILITY VERSION	+/- 0.1 ppm
GATE TIME (MIN/MAX)	1 ms / 100 ms
CONNECTIONS	SPECIFICATIONS
RF IN/OUT	SMA (50 ohm)

ORDERING DETAILS

RTX NO.	ADD-ON MODULE	DESCRIPTION
95203195	Frequency counter - standard version	Frequency counter add-on module
95203196	Frequency counter - high-stability version	Frequency counter add-on module w/ high-stability reference oscillator