

**ACCESSORY FOR THE
SATELLITE TEST INSTRUMENT
(STI1000C+)**

The RCU is a switch matrix that provides signal multiplexing to either 32 uplink channels and 32 downlink channels or 64 dedicated uplink or downlink channels. Combined with the STI 1000C+ a total of 384 calibrated paths are available.

**QUALIFIED TO OPERATE IN A
THERMAL VACUUM CHAMBER**

The RCU utilizes fully vacuum compliant components. The RCU has been qualified to operate in hard vacuum at temperatures ranging from 0 °C to +50 °C.

UNIQUE CALIBRATION FEATURES

The RCU includes a vacuum compliant, NIST-traceable power standard and internal loop paths for fully automated calibration alignment. These features facilitate a simplified calibration of all 64 ports while in a remote location without the requirement to disconnect any cables. When combined with the STI1000C+, amplitude and phase drift due to temperature changes between the rack and the RCU in TVAC can be automatically corrected in all measurements.

For more information on any of our products or services please visit us on the web at: www.aeroflex.com or contact us at +1 614 888 2700.

Remote Calibration Unit



- Performance specifications
- Frequency range from 0.1 to 32 GHz
- Maximum power
 - Uplink +30 dBm (max)
 - Downlink +30 dBm (max)
- Repeatability
 - Magnitude: 0.1 dB typical
 - Phase: 2 degrees typical
- VSWR: 1.5:1 typical
- Insertion loss: < 12 dB typical
- Isolation: > 70 dB typical
- Dual interface ports
 - Standard CAN bus control
 - RS-232

- 32 Uplink channels and 32 Downlink channels
- Thermal vacuum (TVAC) qualified
- Qualified vacuum: Hard vacuum 1×10^{-9} Torr
- Temperature range:
 - Qualified operational: 0 °C to +50 °C
 - Storage: -40 °C to +85 °C
- Remote TVAC compatible power sensor included in the RCU for calibration
- Weight: 27.5 lbs
- Dimensions: 15" H x 10" W x 10" D
- Mounting holes: Four (4) rivet nuts use 1/4 x 20 bolts

