

Flexible & reliable solutions for ground stations & Automated Test (ATE) Applications



THE APPLICATIONS ARE FOR SIGNALS ROUTING, DISTRIBUTION, AMPLIFICATION, ATTENUATION, MONITORING, FILTERING AND FREQUENCY TRANSLATION



Overview

Celestia TTI staff has extensive experience in designing ad-hoc RF interface and switching solutions according customer requirements. This is the essence of our skills since no two systems have exactly the same requirements. Some of our solutions are the results of tailored design for our customers.

Our RF interface and switching solutions are typically used in Satellite Ground Stations and Automated and Tests (ATE) applications for signals routing, distribution, amplification, attenuation, monitoring, filtering and frequency translation.

The units can provide additional functionalities by monitoring external signals or alarms and activation of external signals from/to external equipment thanks to the I/O interface. Typical applications are the inhibit and interlock functions normally found in the ground stations.

The units support local and remote operation through front panel and remote interface, respectively. In addition, a Web based MMI Interface is available.

Key Features

- * Custom configuration
- * Optimization of complex test configurations
- * Several frequency ranges available
- * High quality RF components
- * External signals monitoring and control
- * Front panel Graphical User Interface
- * Web based MMI
- * Audible alarms and enable/disable controls
- * Ethernet network interface
- * 19-inch Rack mount chassis
- * CE certified



OPTIONS

Engineering, training & support services

BENEFITS

High Quality Switching and RF components

Frequency ranges according to customer requirements

Custom configurations according to customer requirements

TouchPad GUI for easy operation and Web based MMI

 **Technical**

Frequency range	Several frequency ranges according to customer requirements
Switches	Technologies: solid-state, electromechanical Types: SPDT, multiway, switching modules Handling of different control interfaces
RF Components	Dividers, combiners, couplers, splitters Fix Attenuators, Step Attenuators Filters Mixers Power detectors
Configuration	Configurations tailored according to customer requirements Switching, RF components or any combination of them
I/O Interface	Input: Monitoring of signals or alarms from external devices Output: Activation of control signals towards external devices Interlock and inhibit functions supported
Local Monitoring & Control	TouchPad Graphic User Interface (GUI) Web based MMI Audible alarms with enable/disable controls
Remote Monitoring & Control	ASCII based protocol Ethernet network interface
Connectors	Coaxial connectors Several types depending on frequency range Impedance: 50 Ω or 75 Ω
Physical & Electrical	19-inch rack mount chassis Height: depending on the configuration (2 RU minimum height) Depth: 616 mm (including rear connectors) Depth: 616 mm (including rear connectors) CE certification