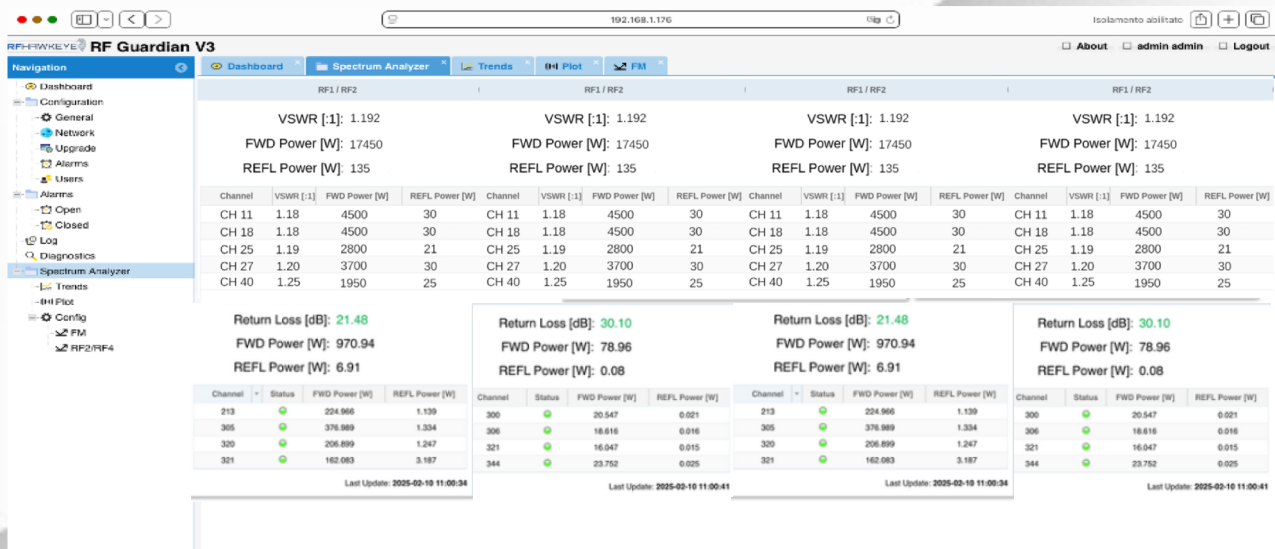


DAC RF Multi-Switch – Intelligent Broadband RF Routing Module for Multi-Feeder Monitoring

The DAC Multi RF Switch is designed for Air Traffic Control RF infrastructures, where continuous antenna integrity monitoring is essential across VHF and UHF bands, including systems operating with frequency hopping and multi-channel configurations.

Using a single, always-connected measurement unit, the system enables broadband and channelized VSWR monitoring across up to 8 RF feeders, without manual reconnection or service interruption.

Optional Distance-to-Fault (DTF) capability can be added with additional hardware, enabling advanced fault localization on RF feeders when required.



Key Features

- **Continuous VSWR monitoring (broadband and channelized)**
Continuous VSWR measurements across operational RF bands, supporting both broadband and channelized analysis, suitable for frequency-hopping and multi-service environments.
- **Multi-antenna architecture with a single always-connected measurement unit**
A single measurement unit performs continuous VSWR monitoring across up to 8 RF feeders, ensuring simplified architecture and reduced hardware footprint.
- **Automatic RF switching**
Integrated automatic sequential switching enabling unattended and deterministic measurement cycles across all connected feeders.
- **Fully in-service 24/7 operation**
Continuous monitoring with no RF disconnection required, ensuring full compatibility with mission-critical infrastructures.
- **High RF performance and proven design**
High isolation (>60 dB), low insertion loss (<0.5 dB), and field-proven architecture derived from DAC's PMB/RFG platform.
- **Industrial rack-mount design**
1 HU 19" rack-mount unit with front-panel SMB RF connectors and rear control interface.
- **Optional DTF diagnostics**
Distance-to-Fault (DTF) capability can be added as an optional feature, requiring additional hardware, to enable advanced fault localization on RF feeders.

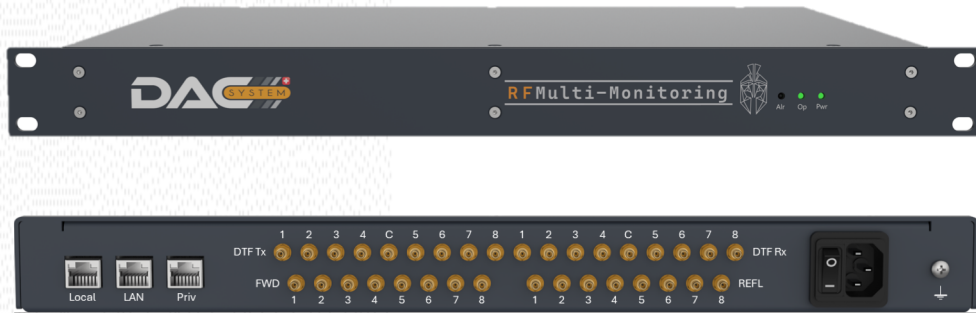


Parameter	Specification
Frequency range	DC – 2.0 GHz
RF connectors	34 × SMB (female)
Accuracy	+/- 0.5 dB Broadband meas. +/- 1.0 dB Channelized meas.
Port-to-port isolation	> 60 dB typ.
Return loss	> 20 dB
Filter	Band-pass / notch filters for radar–service isolation
Control interface	3 × Ethernet (RJ45 10/100Base-T,)
Management protocol	TCP/IP, SNMP v2c/v3, HTTP/HTTPS
Status indicators	Port LEDs, Power, Activity, Alarm
Power supply	1 × AC 90–264 V, 47–63 Hz (IEC connector)
Power consumption	15 W max
Operating temperature	–5 °C to +45 °C (ETSI EN 300 019-2-3)
Cooling	Passive (fanless)
Operation	Continuous 24/7 broadband and Channelized monitoring

Note: The specifications in this document are subject to change without notice. DAC System reserves the right to make changes to products or discontinue them at any time.



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Form factor

1HU – 19" rackmount

Safety & EMC

EN 60950-1 / EN 61326-1 compliant

Environment

Up to 90 % RH non-condensing

DAC part number

RFG-MS-134-SA

Designed for 24/7 in-service operation, the Multi RF Switch transforms RF measurements from a point-in-time activity into a continuous, centralized and scalable monitoring process, enabling early fault detection, fast localization and reduced operational risk.

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