Remote Monitoring & Control Unit for the new generation of GaN BUCs/ SSPAs/UCs

USING UNIVERSAL PROTOCOLS, THE UNIT **REMOTELY MONITORS AND CONTROLS REDUNDANT SSPAs/BUCs/UCs** CONFIGURATIONS FOR INDOOR OPERATION

Configurability

Field configurable for managing and controlling up to 8/4/3 SSPAs/BUCs/Up coverters and 4/6 switches with a **variety of redundancy applications:** 2:1, 1:1 & 1:0 or a phase combined system.

Operativity

Full remote M&C capability of BUCs/SSPAs/UCs and switches configured in the system through **TCP/IP web interface embedded in the RCU.**

Front **panel touch screen** offers quick and user-friendly local operation displaying live performance indicators in the **LCD.**

Communication protocol

Communication with the system by **USB (local interface), RS485** (4 wire or 2 wire) serial ports or Ethernet sockets with two ports, by default 7001 and 8001.

Redundant supply

Dual internal power supply working in redundancy maintain RCU performance when one power supply fails.

Key Features

* Management of redundant configurations (1:1, 2:1)
* Management of phase combined system
* Management of standalone units
* User-friendly touch panel LCD for local control
* RS485, USB & Ethernet interfaces
* Embedded secure web interface
* Fault & alarms interfaces
* Redundant power supply
* Rack mounting (2RU height)
* Indoor or outdoor system

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OTHER FEATURES

* Simple operation & maintenance
* Long-term support

OPTIONS

* UPC-Uplink power control
* Antenna switch

celestia-tti.com
sales@celestia-tti.com

Information contained in this document is subject to change without notice.

Unless otherwise specifications, tests have been done at 23 ºC.

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Remote Control Unit

M&C GaN SSPA/BUC/UC Systems

Indoor

Local interfaces

CONTROLS	STATUS DISPLAY		STATUS LEDs	
Local / Remote	Alarms	Summary fault	Power On	
Manual / Automatic		Over temperature fault	Alarms	Summary Fault
Channel selection		Local oscillator fault		PSU Alarm
Waveguide switches	Monitoring	Mute TX On / Off	Local / Remote	
RF inhibit enable / disable		SSPA external On / Off	Monitoring	Presence
User attenuation		RF output power (IN, Rev)		Fault State
SSPA external On / Off		Temperature		Mute TX On / Off
Mute TX On / Off				Forward State
Set alarm thresholds				
Fault reset				

Remote interfaces

COMMUNICATION	
RS485	ASCII Command under proprietary packet format
USB (type A)	ASCII Command under proprietary packet format
ETH (RJ45)	ASCII Command under proprietary packet format
	Web interface
	SNMP interface
M&C	
Form-C contacts (RCU)	Summary Fault
	Summary Alarm
	Global On / Off
	Global mute
SUPPLY	
AC line (2 inputs)	IEC320 inlet

Operating configurations

1:1 systems	1:1 redundant SSPAs/BUCs/UCs
2:1 systems	2:1 redundant SSPAs/BUCs/UCs
Phase combined systems	
Standard	up to 3 SSPAs
Hyper	up to 4 SSPAs
Ultra	up to 8 SSPAs
Standalone unit	SSPA/BUC/UC

Environmental

Dimensions (W x H x D)	
Standard	483 x 88 x 305 mm - 19” rackmount, 12” deep, 2U height
Hyper/Ultra	483 x 132 x 305 mm - 19” rackmount, 12” deep, 3U height
Weight	
Standard	4.7 kg
Hyper/Ultra	7 kg
Supply	85-264 VAC, 47-63 Hz
Operating temperature	0 ºC to +55 ºC
Storage temperature	-40 ºC to +85 ºC
Humidity	10-95 % Non-Condensing