

# cito Plus 1310-APNA-N25C-FP-002

cito Plus 1000 W, 13.56 MHz

## Product specification

Type Designation	cito Plus 1310-APNA-N25C-FP-002
Part Number	64001214
Frequency (MHz)	13.56 MHz
RF Power (W)	1000 W
AC Input	230 VAC
Max. delivered power into mismatch (W)	200 W
Load impedance (Ohms)	50
RF Connector (Ohms)	N-type
RF power regulation mode	P forward, P delivered or Process feedback
Regulation (%)	$\pm 1$ % of setpoint or $\pm 0.1$ % of full rated power
RF on rise time (ms)	< 20 ms
RF off fall time (ms)	< 1 ms
Pulse Mode	Yes
Pulse rise time ( $\mu$ s)	< 1 $\mu$ s
Pulse fall time ( $\mu$ s)	< 1 $\mu$ s
Pulse repetition frequency (Hz)	0.0167 Hz to 100 kHz
Pulse duty cycle (%)	0.01 % to 99.99 %
Pulse period resolution ( $\mu$ s)	0.1 $\mu$ s
Interfaces	RS232, Ethernet, DB25 Analog/Digital, 9-pin matching bus
Additional Fieldbus Interface	None
Frontpanel	Passive front panel
Harmonics (dBc)	$\leq -40$ dBc
Spurious content (dBc)	$\leq -50$ dBc
CEX operation mode	Yes
CEX input signal as required (dBm)	+ 3 dBm to + 10 dBm
CEX output signal specifications (dBm)	+ 6 dBm +/- 2 dBm
CEX connector (Ohms)	SMA
CEX Phase Shift (degrees)	-180 degrees to +180 degrees in 1 degree steps

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**Physical specification**

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Dimensions (mm x mm x mm)	441 mm (width) x 500 mm (depth) x 88 mm (height)
Weight (kg)	< 15 kg
Mounting	19" rack mounting
Clearance (mm)	80 mm to air inlet

**AC power line**

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AC line voltage (VAC 1-phase)	Single phase 187 VAC to 265 VAC
AC line frequency (Hz)	50/60 Hz nominal
Operating AC line current (A)	5.6 A to 7.8 A
AC input power (VA)	Single phase 187 VAC to 265 VAC
Efficiency line to load (%)	> 0.69 typical
Power factor	> 0.95 typical
AC mains connection	IEC 320

**Cooling**

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Cooling method	air cooled
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**Protections**

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Reflected power limit	Yes
Overtemperature	Yes
Humidity	–
DC current limit	–
DC overload	–
RF power limit	Yes