

NCC-2222G



Overview

The NCC-2222G is a controller combined with a broadcast amplifier. There are 2 BC inputs, A and B for redundancy applications. The unit monitors the RF level of the BC signal and power supply and controls up to 22 NCI-521 Narrow Cast Inserters. Via the built-in web browser all settings and controls can be operated. Via SNMP all functions and alarms can be operated remotely.

The NCC-2222G is the controller for the Narrowcast Insertion application. It controls and monitors up to 22 units of the NCI-521(-12) in a 19" sub-rack with back plane, MRO-100G/BP. Monitoring of the power supply RPS-UNI is done on the main and back-up voltages for both sections of the power supply. Cooling fan of the power supply is monitored. In case of alarm the LED at the front lights up red, for an alarm at the power supply and starts blinking red for an alarm with one of the narrowcast inserters. Via SNMP a trap will be sent to the network management system. Up to five IP addresses can be configured for sending SNMP traps.

RF and electrical specifications

		MHz	Min	Typ	Max
Frequency range (MHz) Gain			40		1006
Gain (dB) ¹	BC Input A,B to BC Output 1..3		18.5	19	19.5
Isolation BC input A to B		40 MHz < F < 1006 MHz	60		
Input level (dBμV)					109
Test point (dB) ¹	w.r.t. BC Input		19.5	20	20.5
Return loss output ²		40 MHz < F < 65 MHz	16		
Return loss output ²		65 MHz < F < 1006 MHz	18		
Return loss all other ports ²		40 MHz < F < 65 MHz	18		
		65 MHz < F < 1006 MHz	22		
Flatness (all ports)		40 MHz < F < 862 MHz		± 0.25	± 0.5
		862 MHz < F < 1006 MHz		± 0.3	± 0.6
Input Attenuator ³			0		30
Input equaliser ³			0		10
Noise figure ³				7	10
CSO	42 channels at 99 dBμV output			-70	-67
CTB	42 channels at 99 dBμV output			-70	-63
Supply voltage (V)			15	24	26
Supply power (mA)				300	350
Interfacing	Local control		Web browser		
	Remote control		SNMP		
	Physical		2 x Ethernet 10/100Base T		
Status indication			LED (red/green)		
Monitoring & control	NCI-521		1		22
Monitoring	RPS-UNI			1	
	RPS-UNI		Temp - Fan - Redundancy		
Broadcast input signal			yes		
Broadcast redundancy			Manual or automatic		

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Mechanical and other specifications

		MHz	Min	Typ	Max
Connectors ⁴	Inputs - Front panel			2x F Female	
	Outputs - Back panel			3x F Female	
	Test point - Front panel			F Female	
	Monitoring I/O - Back panel			PCB edge connector	
	Ethernet I/O - Front panel			2 x RJ-45 shielded	
Temperature range (°C)	Operational		5		+45
	Operational, reduced specifications		0		+55
	Storage		-20		+85
Humidity (%)	Non condensing		5		95
EMC (dB) ⁵		5 MHz < F < 300 MHz	85		
		300 MHz < F < 470 MHz	80		
		470 MHz < F < 950 MHz	75		
		950 MHz < F < 1006 MHz	55		
Marking				FCC/CE/RoHS compliant	
Dimensions		H x W x D		3HE x 7TE x 100 mm	

Ordering information

Item number	Legacy
11552223	NCC-2222G

Remarks

1	When the attenuator and equaliser are set to 0 dB
2	At F = 40 MHz F > 40 MHz -1,5 dB/octave
3	Attenuator and equaliser set in steps of 0.5 dB
4	F female connectors inner contact = 0,7 to 1,3 mm
5	According IEC 50083-2 2006 4.3.3.1 to 4.3.3.3 Unit is RoHS compliant

Measurements taken at room temperature

Other products used with this product are:

NCI-521	Narrow Cast Inserter 1GHz
NCI-521-12	Narrow Cast Inserter 1.2GHz
MRO-100G/BP	Sub rack 19" 3RU for mounting and interconnecting the NCC-2222 with 22 x NCI-521
RPS-UNI-1200	Universal Redundant Power Supply rack. (230V AC or 48V DC)
PSD-xxx	DC/DC converter series plug in power supply for RPS-UNI
PSA-xxx	AC/DC converter series plug in power supply for RPS-UNI

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