

sat-nms LDCI - Lineamplifier with DC Inserter and integrated Input Level Monitoring

The **sat-nms** LDCI Line amplifier with DC Inserter and integrated Input Level Monitoring is a highly sophisticated unit designed for professional satellite receive applications. It is available as a scalable system with up to 5 hot-pluggable modules integrated in the 2RU 19" rack-mount chassis **sat-nms** MPC.

Each module contains four adjustable RF Amplifiers with integrated DC power insertion and monitoring of the L-Band input signal power. An extensive monitoring functionality like LNB supply current with min/max current threshold is implemented. The remote MNC interface is via web-browser, SNMP, HTTP GET functions and RS232 interface as in all other **sat-nms** products. The **sat-nms** MPC 19" rack-mount chassis also provides an LCD display and keyboard for local control as an option.



The scalable system is able to support even a single antenna sub-system with 4 LNCs for a small application to a reasonable price, but is also able to provide power to an unlimited number of antennas with multiple **sat-nms** LDCI / MPC chassis. The only restriction is the supply current to the LNBs of max. 5.5 Amps. in total per standard chassis. But the **sat-nms** LDCI can also be delivered in other configurations with the ability to supply a higher total current.

The main applications of the **sat-nms** LDCI are multiple LNB DC power insertion within a compact frame, where size is a critical issue, and additional DC power insertion in front of an L-Band Matrix. Due to the scalability the **sat-nms** LDCI is also the unit of choice in teleports with a large number of receive antennas.

Key Features

- LNB DC Power Insertion and Monitoring
- Input Power Monitoring
- 19" 2RU Unit Compact Design
- Redundant Power Supplies
- Scalable Design with hot-swap Modules
- TCP/IP, SNMP, sat-nms MNC available

Applications

- Satellite Ground Stations and Teleports
- Cable Head-end Stations

Contact Information

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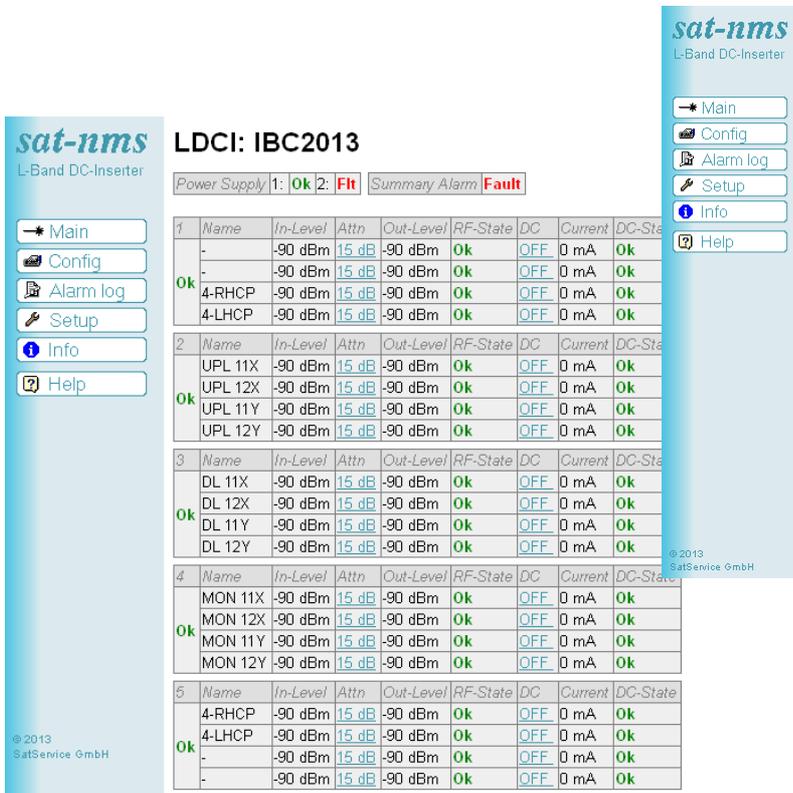
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Technical Specification

RF Specification

Frequency Range	950 to 2150MHz
L-Band Input Connectors	SMA female 50Ohm
L-Band Output Connector	SMA female 50Ohm
Input and Output Return Loss	> 17dB
Input Noise Figure Total Optical Link	< 10dB with 15dB Attenuator Setting
Damage Input Level	+13dBm
Gain Flatness	+/-1.5 dB, +/-0.25dB in any 40MHz
Gain of LDCI with Attenuator Setting of 15dB*	0dB
Attenuation (adjustable via local and remote interface)*	0 to 31dB in 1dB Steps
Intermodulation at -13dBm Input Signal Level each	<-40 dBc
DC-output at L-Band input connector	15+/-1V



sat-nms
L-Band DC-Inserter

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LDCI: IBC2013

Power Supply 1: **Ok** 2: **Ft** Summary Alarm **Fault**

1	Name	In-Level	Attn	Out-Level	RF-State	DC	Current	DC-State
Ok	-	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	-	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	4-RHCP	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	4-LHCP	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok

2	Name	In-Level	Attn	Out-Level	RF-State	DC	Current	DC-State
Ok	UPL 11X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	UPL 12X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	UPL 11Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	UPL 12Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok

3	Name	In-Level	Attn	Out-Level	RF-State	DC	Current	DC-State
Ok	DL 11X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	DL 12X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	DL 11Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	DL 12Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok

4	Name	In-Level	Attn	Out-Level	RF-State	DC	Current	DC-State
Ok	MON 11X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	MON 12X	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	MON 11Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	MON 12Y	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok

5	Name	In-Level	Attn	Out-Level	RF-State	DC	Current	DC-State
Ok	4-RHCP	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	4-LHCP	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	-	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok
	-	-90 dBm	15 dB	-90 dBm	Ok	OFF	0 mA	Ok

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Config Parameters

Ch	Name	Threshold	Curr. min.	Curr. max.	RF-In Off.	RF-Out Off.
Slot 1	1	-	-95 dBm	0 mA	350 mA	0 dB
	2	-	-95 dBm	0 mA	350 mA	0 dB
	3	4-RHCP	-95 dBm	0 mA	350 mA	0 dB
	4	4-LHCP	-95 dBm	0 mA	350 mA	0 dB
Slot 2	1	UPL 11X	-95 dBm	0 mA	350 mA	0 dB
	2	UPL 12X	-95 dBm	0 mA	350 mA	0 dB
	3	UPL 11Y	-95 dBm	0 mA	350 mA	0 dB
	4	UPL 12Y	-95 dBm	0 mA	350 mA	0 dB
Slot 3	1	DL 11X	-95 dBm	0 mA	350 mA	0 dB
	2	DL 12X	-95 dBm	0 mA	350 mA	0 dB
	3	DL 11Y	-95 dBm	0 mA	350 mA	0 dB
	4	DL 12Y	-95 dBm	0 mA	350 mA	0 dB
Slot 4	1	MON 11X	-95 dBm	0 mA	350 mA	0 dB
	2	MON 12X	-95 dBm	0 mA	350 mA	0 dB
	3	MON 11Y	-95 dBm	0 mA	350 mA	0 dB
	4	MON 12Y	-95 dBm	0 mA	350 mA	0 dB
Slot 5	1	4-RHCP	-95 dBm	0 mA	350 mA	0 dB
	2	4-LHCP	-95 dBm	0 mA	350 mA	0 dB
	3	-	-95 dBm	0 mA	350 mA	0 dB
	4	-	-95 dBm	0 mA	350 mA	0 dB

Webinterface Configuration page