

## INST GTDC1



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Controller for dLNB

Manufacturer: [GT SAT](#)

### Description

Programmable DIGITAL SCR LNB

- up to 24 User Bands
- fully programmable configuration (number, bandwidth, center frequency, signal level, etc.) with XDiSEqC protocol
- static mode of working (equivalent to SMATV head-end station)
- dynamic mode of working (equivalent to SCR LNB)
- User Band center frequency accuracy – 0.125 MHz
- User Band bandwidth up to 82 MHz
- coax cable loss compensation by signal level regulation
- terrestrial input (47 – 700MHz)
- software upgrade over coax cable
- software version read-out
- serial number programming
- wide-band RF architecture (lower spurious, lower power consumption)
- DiSEqC 2.0 communication
- compatible with EN50494, EN50607 and dHello
- compact housing

### Technical specification

- Input frequency: 10700 – 12750MHz
- Output frequency: 950 – 2150MHz
- UB frequencies: programmable with 0.125MHz accuracy
- LO stability:  $\pm 1$ MHz at room temperature and  $\pm 3$ MHz at temperature -35 to +65°C

- Noise Figure: < 0.8dB (max.)
- Gain: 42 – 62dB (programmable with 1dB step)
- Gain Flatness:  $\pm 0.2$ dB for 26MHz BW
- Gain variation: 1dB over temp. (by programming)
- Cross polarization isolation: > 23dB
- Image rejection: > 40dB
- Linear polarization: vertical and horizontal
- Local oscillator: 10.40GHz
- Integrated phase noise: < 2.5° RMS @ 10kHz – 13MHz
- Power consumption: 4.75W (max. with all UBs active)
- Power supply voltage: 10 – 20V
- Operating temperature range: -30 to +65°C
- Feed length: 42mm