

# GTNRED N+1 Redundancy

## TANGRAM GTNRED Licenses

The N+1 module redundancy for GT01Wx is enabled by the SW option GTNRED.

The N+1 redundancy for GT01Wx provides the functionality to set up redundancy group, and assigning TANGRAM modules as "master" or "reserve" or "none" for a group. The "reserve" TANGRAM in a redundancy group is kept "offline" until it needs to be used due to a failure in an operational TANGRAM.

**Maximum performance,  
minimum footprint.**

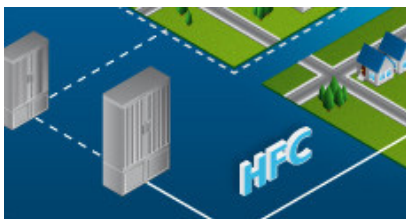
The WISI TANGRAM video platform is a high-density digital TV headend for contribution of digital TV via IP networks and end-to-end IPTV solutions such as video-on-demand, connected TV and OTT (Over The Top) or Web TV.

## Features

- N+1 Redundancy and 1+1 Redundancy
- Support of 1 Redundancy Group
- Status information UI
- GT01Wx storing configurations files for all operational TANGRAM modules
- Automatic Failover



## Solutions with TANGRAM



**HFC**  
From the Headend to the wall-outlet: everything for the cable network.



**RF OVERLAY**  
Solutions for video services in GPON and Active Ethernet networks.



**CHANNEL PROCESSING**  
Headends for residential, regional and national networks.

## General Information about SW options

A SW option purchased for a TANGRAM can only be used in this specific TANGRAM. When ordering a SW option for a specific TANGRAM, the serial number of the TANGRAM must be stated. SW options can be ordered together with the TANGRAM HW modules, or separately to an existing TANGRAM module.

## Technical Information

N+1 Redundancy	
Number of Redundancy groups	1
Number of operational units	5 (1 redundancy group with 1 TANGRAM GTx module)
Auto fail-over	Yes
Recovery	Manual recovery

SW options	Article number	Description
GTNRED	73073	N+1 module redundancy

**Note:** The N+1 redundancy is managed by the embedded GT11 switch in GT01Wx chassis, and the GTNRED SW option should be associated to the GT01W. The TANGRAM modules do not need any additional SW option for the N+1 redundancy.

Related SW options and constraints	
GTM1	Service Level Agreement extension 1 year
GTM3	Service Level Agreement extension 3 year

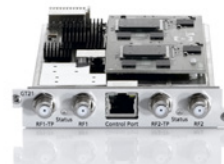
## Related Hardware



### TANGRAM chassis

**GT01:** 19inch, 1 HU subrack with embedded GigE switch, embedded fans and PSU, and redundant PSU as option.

For more information about GT01, and GTx modules, please contact WISI sales, or visit our web site [www.wisi.de](http://www.wisi.de).



### TANGRAM modules

- GT21:** EdgePAL
- GT22:** EdgeFM
- GT23:** EdgeQAM module
- GT24:** EdgeCOFDM module
- GT31:** DVB-S/S2/C/T/T2 Reception
- GT42:** Descrambler

