



Niveo-KB21010 Video-over-IP Design Guide

These designs work for nearly all industry standard 1G Video-over-IP designs, including Crestron, Visionary Solutions, Key Digital, Wyrestorm, SVSI, Atlona Omnistream, Blustream and DigitalinxIP and many others.

Instructions on how to upload configuration files can be found in the guide:

[Niveo-KB21009 SWITCH ConfigFile Upload.pdf](#)

Single Switch Designs:



0-8 encoders/decoders:

NGSME8H(-AV)

**)Some rare value Video-over-IP Products do not adhere to IEEE standards for PoE+ and cannot be powered by Type-B PoE of this switch.*

Config Files:	NGSME8H(-AV)
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME8H_Config_lin	VOIP_NGSME8H_Config_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1



Single Switch Designs:

9-16 encoders/decoders:

NGSME16T2H(-AV)

**)Some rare Video-over-IP Products do not adhere to IEEE standards for PoE+ and cannot be powered by Type-B PoE of this switch.*

Config Files:	NGSME16T2H(-AV)
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME16T2H_Config_lin	VOIP_NGSME16T2H_Config_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1

17-24 encoders/decoders:

NGSME24T2H(-AV)

Config Files:	NGSME24T2H(-AV)
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME24T2H_Config_lin	VOIP_NGSME24T2H_Config_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1

24-48 encoders/decoders:

NGSME48T2H/ NGSME48T4H

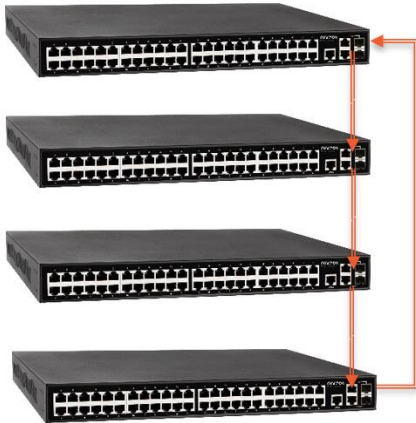
Config Files:	NGSME48T2H
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME48T2H_SW1_lin	VOIP_NGSME48T2H_SW1_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1
Config Files:	NGSME48T4H
All Serial Numbers	-
VOIP_NGSME48T4H_SW1_Config_lin	
Firmware Version Should be:	
v2.1.1	

Our website: <https://www.niveoprofessional.com/>

Niveo Tech team: 855-40-NIVEO/855-406-4836



Stacked Switch Designs



49-96 encoders/decoders:

2* (NGSME48T2H or NGSME48T4H) + Virtual Stacking using 2/4 10G SFP+ per switch, (N10GSM or N10GMM). **Balance the encoders over the switches.**

Config Files:	NGSME48T2H - Switch 1
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME48T2H_SW1_lin	VOIP_NGSME48T2H_SW1_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1
Config Files:	NGSME48T2H - Switch 2
Serial Number starts with: 99...:	All other Serial Numbers:
VOIP_NGSME48T2H_SW2_lin	VOIP_NGSME48T2H_SW2_ecos
Firmware Version Should be:	Firmware Version Should be:
v2.1.1	v1.0.1

Config Files:	NGSME48T4H - Switch 1
All Serial Numbers	
VOIP_NGSME48T4H_SW1_Config_lin	
Firmware Version Should be:	
v2.1.1	
Config Files:	NGSME48T4H - Switch 2
All Serial Numbers	
VOIP_NGSME48T4H_SW2_Config_lin	
Firmware Version Should be:	
v2.1.1	

Notes:

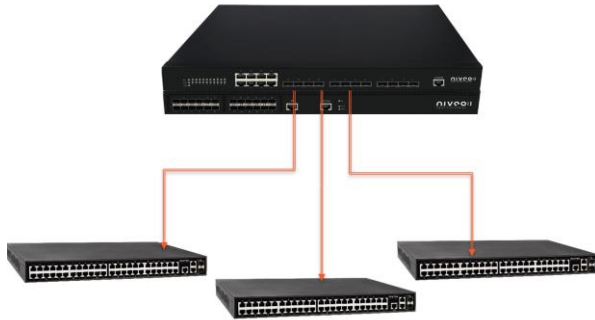
- Please call our Niveo Tech Team in your design phase. We will help you work through the needs of your endpoints, POE+ and share best practices. As you know, the switches are the most critical component in the IP network. We will help you ensure your network works well.
- Niveo’s Self-Healing Power feature will reduce your trouble calls, ask us about it.
- Niveo Tech Team: 855-40-NIVEO/855-406-4836
- We suggest you pre-stage, before going live. If your network does not work, please call us. In most cases, the issues are caused by configuration or accessory issues. We will help you solve the issue.
- Please only use NIVEO recommended firmware versions & settings.
- Please use Niveo recommended fiber modules: N10GMM or N10GSM.



Tree/Leaf Design

Contact our Niveo Tech Team for Configuration help

**)Some rare value Video-over-IP Products have issues working in Tree/Leaf designs. When in doubt, please contact the Niveo Tech Team.*



241-384 encoders/decoders:

6 – 8 * NGSME48T2H + 1 Core switch N10GSM16 + 2 10G SFP+ per switch, (N10GSM or N10GMM). **Balance the encoders over the switches.**

385-768 encoders/decoders:

9 – 16 * NGSME48T2H + 1 Core switch N10GSM32 + 2 10G SFP+ per switch, (N10GSM or N10GMM). **Balance the encoders over the switches.**

769-1152 encoders/decoders:

17 – 24 * NGSME48T2H + 1 Core switch N10GSM6QF48 + 2 10G SFP+ per switch, (N10GSM or N10GMM). **Balance the encoders over the switches.**

1153-2306 encoders/decoders:

25 – 48 * NGSME48T2H + 2 aggregated (6*40G QSFP+ link) Core switches N10GSM6QF48 + 2 10G SFP+ per switch, (N10GSM or N10GMM). **Balance the encoders over the switches.**

Notes:

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- Niveo's Self-Healing Power feature will reduce your trouble calls, ask us about it.
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We build Network and Power solutions for AV and Security integrators. Our solutions are designed and supported with AV and Security integrators needs in mind. Our focus is to use selected proven technologies, combine them with a range of proprietary features, and then assemble the units with the best available chipsets and components. We manufacture these products to outperform all their peers. The unparalleled integrator support enables our solutions to be in a class on their own!

Niveo Professional offers products in the following categories:

Enterprise Switches



Enterprise Routers



Fiber Accessories



UPS Systems



PDU's



Wireless Networks



Business Switches



For more information, please contact your local representative or contact us at: info@niveoprofessional.com or visit our website:



www.niveoprofessional.com