

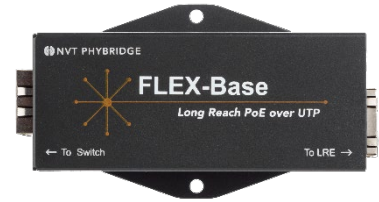
Quick Install Guide: FLEX-Base

FLEX-Base Extender Solution is designed to supercharge the downlink ports of a standard Ethernet switch delivering 10/100Mbps symmetrical (full duplex) and PoE over Multi-Pair UTP infrastructure with distances up to 2,000ft (610m). The FLEX offering is designed specifically to enable easy deployment over UTP for reaches beyond that of standard Ethernet eliminating the costs and disruption associated with IDF closet requirements.

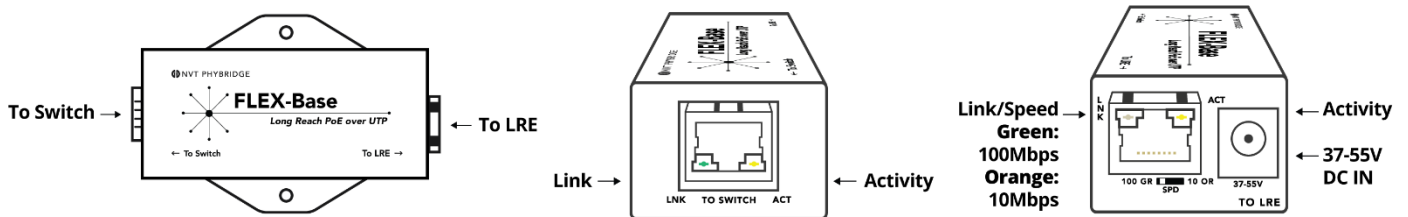
FLEX-Base (NV-FLXLK-BSE)

- Paired with FLEX-C, FLEX-Link or FLEX4
- Up to 50W PoE
- Local power option
- IEEE compliant
- 802.1x port-based authentication (with supported FLEX adapter)

FLEX-Base Extender

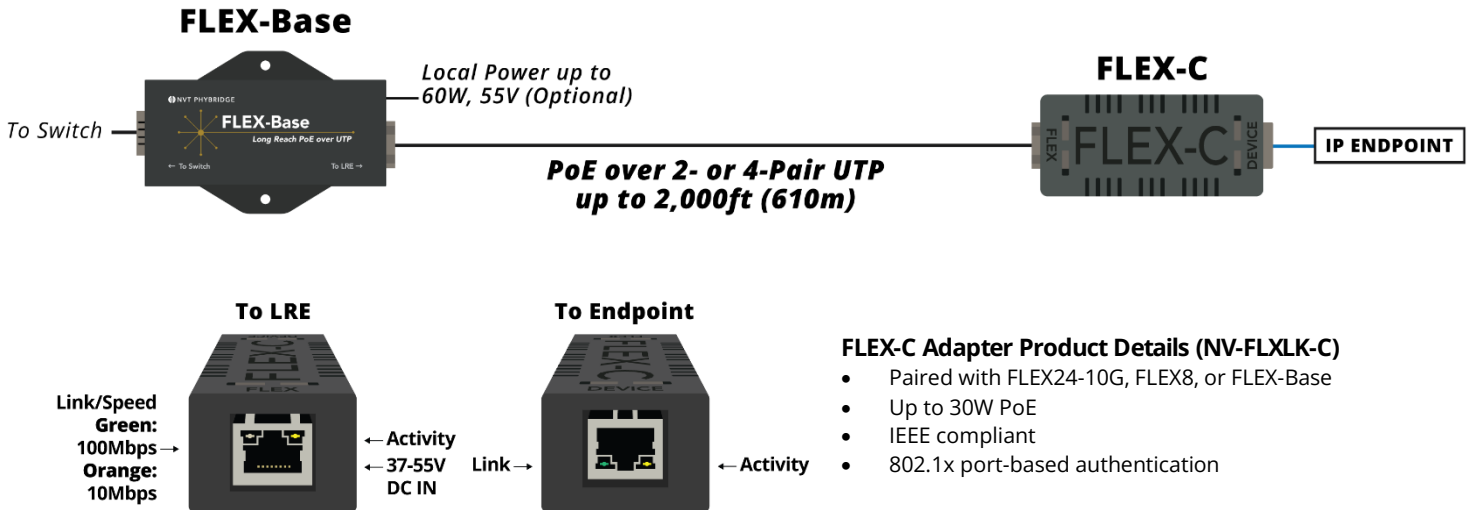


FLEX-Base Extender

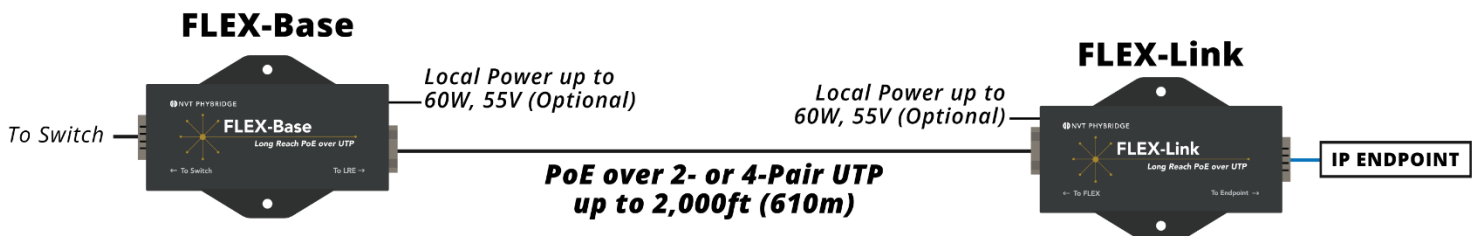


Hardware Topology

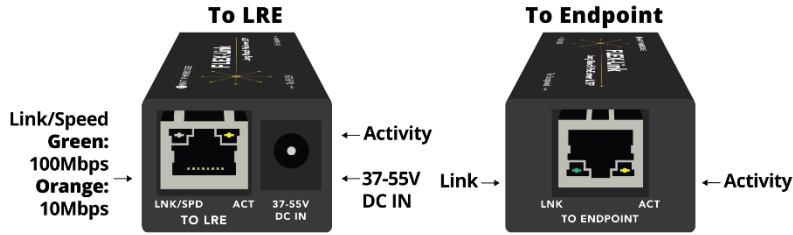
FLEX-Base Extender paired with FLEX-C Adapter



FLEX-Base Extender paired with FLEX-Link Adapter *(Available in Kit format. 1-Port Extender Kit Part Number: NV-FLXLK-XKIT)*

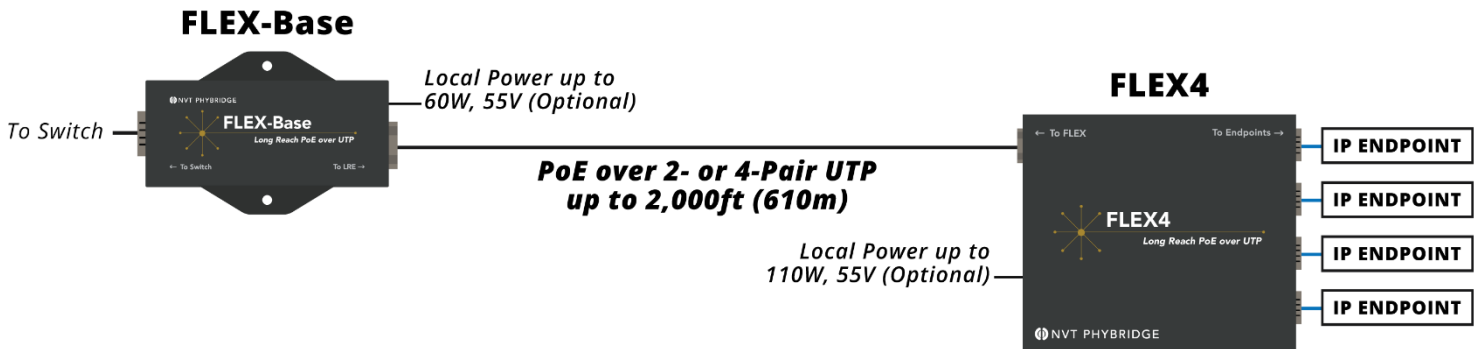


Quick Install Guide: FLEX-Base

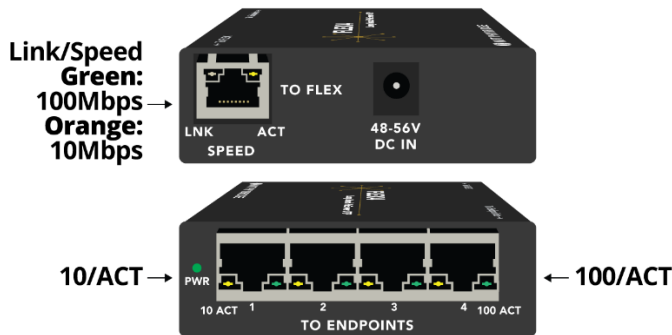


FLEX-Link Adapter Product Details (NV-FLXLK)

- Paired with FLEX24-10G, FLEX8, or FLEX-Base
- Up to 50W PoE
- PoE on 4 pairs
- Local power option
- IEEE compliant
- 802.1x port-based authentication



FLEX-Base Extender paired with FLEX4 Adapter ([Available in Kit format. 4-Port Extender Kit Part Number: NV-FLX-04-XKIT](#))



FLEX4 Adapter Product Details (NV-FLX-04)

- Paired with FLEX24-10G, FLEX8, or FLEX-Base
- 1 uplink port and 4 downlink ports
- Max 30W per downlink port
- Supports IEEE compliant devices
- Can be locally powered for additional PoE delivery

Extender Kits: The FLEX-Base can be purchased individually and is also available in two kit options.


<p>1-Port Extender Kit (NV-FLXLK-XKIT)</p> <p>Includes:</p> <ul style="list-style-type: none"> • FLEX-Base Extender • FLEX-Link Adapter • 60W, 55V external power supply 	
<p>4-Port Extender Kit (NV-FLX-04-XKIT)</p> <p>Includes:</p> <ul style="list-style-type: none"> • FLEX-Base Extender • FLEX4 Adapter • 110W, 55V external power supply 	

Quick Install Guide: FLEX-Base

Installation Overview

1. Remove the FLEX-Base from its packaging.
2. Must ensure cable is properly terminated before connecting any FLEX product.
3. Remove all legacy equipment from the UTP cable infrastructure. **Note:** *In order to avoid damage to endpoints, it is important that non-IP devices are not connected when you connect the FLEX-Base.*
4. Connect FLEX-Base (Switch side) to downlink port on switch.
5. Connect the Network Infrastructure cable from the FLEX-Base (LRE side) to FLEX-Link FLEX-C or FLEX4 (LRE side). **Note:** *Single port adapters will establish a connection with the head end switch after an IP endpoint is connected.*
6. Using CAT5 or higher category cable, connect the endpoint to the FLEX-Link, FLEX-C or FLEX4 (Endpoint/Device side). **Note:** *FLEX-Base can be used with FLEX-Link, FLEX-C and FLEX4*

Technical Specifications

Model	FLEX-Base
Part Number	NV-FLXLK-BSE
802.1x Support	Supported
Dimensions	8.8cm x 5.0cm x 2.5cm (LxWxH); 3.46" x 1.97" x 0.98" (LxWxH)
Weight	106g (3.74oz.)
Interface: Network Infrastructure side (LRE)	1 RJ45 port: UTP/STP cable (1-pair, 2-pair or 4-pair)
Interface: IEEE Side (IP Device)	(For General/PoE Switch) 1 RJ45 port: supports negotiation with IEEE 802.3 af/at switches
Power Supply	PoE from standard PoE switch, or external power supply; maximum 50W (over 4-pairs) or 30W (over 2-pairs)
Power Consumption	1.5W
Humidity	10% to 95% (non-condensing) at 35° C
Ambient Temperature	Minimum ambient temperature for cold start-up is 32°F (0°C)
DC IN	Optional (sold separately) 48-56VDC via an external AC/DC Power Adapter (IEC Class II isolated only) NOTE 1: Local power supply used must have its output isolated from Earth potential. NOTE 2: If voltage of local power supply is lower than the power voltage provided from the PoE switch, then power on the PoE switch should be turned off
Operating Temperature	-40C to +70C (-40F to +158F) <i>Tests conducted against international safety standard at maximum ambient temperatures of 60°C at 30W and 50°C at 50W</i>
Mean Time Before Failure (MTBF)	20+ years
Rack Mount	Model NV-RMEXT 

Note the Following:

All of the above instructions provide basic installation information necessary for the proper and safe functioning of this equipment. Persons installing or maintaining this product must read all of the safety instructions and the parts of system grounding, which are applicable to the system being maintained. Only trained, qualified service personnel shall install or maintain this product.

Quick Install Guide: FLEX-Base

⚠ Warnings

FAILURE TO FOLLOW ALL INSTRUCTIONS MAY RESULT IN IMPROPER EQUIPMENT OPERATION AND/OR RISK OF ELECTRICAL SHOCK.

ANY CONNECTION TO AN OUTSIDE PLANT LEAD, AN OFF-PREMISE APPLICATION, OR ANY OTHER EXPOSED PLANT APPLICATION MAY RESULT IN A FIRE OR SHOCK HAZARD, AND/OR DEFECTIVE OPERATION, AND/OR EQUIPMENT DAMAGE.

Keep these instructions with the equipment.

Do not attempt to install or service this equipment unless you are skilled in the installation and maintenance of electronic telecommunications equipment and have successfully completed specific training for this equipment.

⚠ Safety Warnings and Precautions

- Refer to the FLEX24-10G-10G or FLEX8 Quick Install Guides under "Safety Warnings" for the FLEX adapters
- Reportez-vous aux Quick Install Guides FLEX24-10G ou FLEX8 sous "Safety Warnings" pour les adaptateurs FLEX
- Beachten Sie die FLEX24-10G- oder FLEX8- Quick Install Guides unter "Safety Warnings" für die FLEX-Adapter
- Consulte las Quick Install Guides FLEX24-10G o FLEX8 bajo "Safety Warnings" para los adaptadores FLEX
- Katso FLEX24-10G- tai FLEX8 Quick Install Guides FLEX-sovittimien "Safety Warnings" alla
- Raadpleeg de FLEX24-10G of FLEX8 Quick Install Guides onder "Safety Warnings" voor de FLEX-adapters
- Se FLEX24-10G eller FLEX8 Quick Install Guides under "Safety Warnings" för FLEX-adaptrarna
- Se FLEX24-10G eller FLEX8 Quick Install Guides under "Safety Warnings" for FLEX-adaptare
- Ανατρέξτε στους οδηγούς FLEX24-10G ή FLEX8 Quick Install Guides ενόψει "Safety Warnings" για τους προσαρμογείς FLEX
- Fare riferimento alla sezione FLEX24-10G o FLEX8 Quick Install Guides sotto "Safety Warnings" per gli adattatori FLEX
- Consulte o FLEX24-10G ou FLEX8 Quick Install Guides em "Safety Warnings" para os adaptadores FLEX
- Irreferi għall-FLEX24-10G jew FLEX8 Quick Install Guides taħt "Safety Warnings" għall-adapters FLEX
- Vaadake FLEX24-10G vői FLEX8 Quick Install Guides alusel "Safety Warnings" FLEX adapterid
- A FLEX adapterek "Safety Warnings" című részében olvassa el a FLEX24-10G vagy a FLEX8 Quick Install Guides című részt
- Nanašajo na FLEX24-10G ali FLEX8 Quick Install Guides pod "Safety Warnings" za FLEX adapterji
- Další informace naleznete v příručkách FLEX24-10G nebo FLEX8 Quick Install Guides v části "Safety Warnings" pro adaptéry FLEX
- Kreiptis į FLEX24-10G ar FLEX8 Quick Install Guides pagal "Safety Warnings" Už FLEX adapteriai
- Skatiet FLEX24-10G vai FLEX8 Quick Install Guides zem "Safety Warnings", lai FLEX adapteri
- Pozrite si FLEX24-10G alebo FLEX8 Quick Install Guides v časti "Safety Warnings" pre adaptéry FLEX
- Sjá FLEX24-10G eða FLEX8 Quick Install Guides undir "Safety Warnings" fyrir FLEX-millistykki
- Zobacz FLEX24-10G lub FLEX8 Quick Install Guides w sekcji "Safety Warnings" w przypadku adapterów FLEX
- Se FLEX24-10G eller FLEX8 Quick Install Guides under "Safety Warnings" for FLEX-adaptare
- Consultați ghidurile FLEX24-10G sau FLEX8 Quick Install Guides din secțiunea "Safety Warnings" pentru adaptoarele FLEX
- Обърнете се към FLEX24-10G или FLEX8 Quick Install Guides в "Safety Warnings" за адаптери FLEX

FLEX-Base

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|---|--|---|
| • CAUTION , Hot surface | • ΠΡΟΣΟΧΗ , Καυτή επιφάνεια | • POZOR , Horký povrch |
| • ATTENTION , Surface chaude | • ATTENZIONE , Superficie calda | • ATSARGIAI , Karštas paviršius |
| • VORSICHT , Heiße Oberfläche | • CUIDADO , Superficie quente | • UZMANĪBU , Karstā virsma |
| • PRECAUCIÓN , Superficie caliente | • ATTENZJONI , Wiċċ sħun | • POZOR , Horúci povrch |
| • VAROITUS , Kuuma pinta | • ETTEVAATUST , Kuum pind | • VARÚÐ , Heitt yfirborð |
| • VOORZICHTIGHEID , Heet oppervlakte | • VIGYÁZAT , Forró felület | • PRZESTROGA , Gorąca powierzchnia |
| • WARNING , Varm yta | • PREVIDNOST , Vročá površina | • FORSIKTIG , Varm overflate |
| • ADVARSEL , Varm overflade | | • PRUDENTĀ , Suprafata fierbinte |

Compliance and Environmental Information

All the compliance and environmental information is available on our website www.nvtpybridge.com

Quick Install Guide: FLEX-Base

PoE Power Available from FLEX-Base

FLEX-Base used with FLEX-Link									
	20ft (6m)	250ft (76m)	500ft (152m)	750ft (228m)	1,000ft (305m)	1,250ft (381m)	1,500ft (457m)	1,750ft (533m)	2,000ft (610m)
Cat6 4-Pairs	47W	45	43	41	39	37	35	33	30
Cat6 2-Pairs	31W	29	28	26	24	22	20	18	16
Cat5e 4- Pairs	47W	44	41	39	36	33	30	27	24
Cat5e 2-Pairs	31W	29	26	24	21	18	16	13	11
FLEX-Base used with FLEX-C									
Cat6 4-Pairs	31W	30	29	29	28	27	26	25	24
Cat6 2-Pairs	31W	29	28	26	24	22	20	18	16
Cat5e 4- Pairs	31W	30	29	27	26	25	24	22	21
Cat5e 2-Pairs	31W	29	26	24	21	18	16	13	11
FLEX-Base used with FLEX4									
Cat6 4-Pairs	47W	45	43	41	39	37	35	33	30
Cat6 2-Pairs	31W	29	28	26	24	22	20	18	16
Cat5e 4- Pairs	47W	44	41	39	36	33	30	27	24
Cat5e 2-Pairs	31W	29	26	24	21	18	16	13	11

100Mbit	10Mbit
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Support and Warranty

Technical Support

The NVT Phybridge Technical Support Group is available to assist you with product installation, configuration, monitoring and troubleshooting procedures. Should you experience trouble with this equipment or for repair or warranty information, please contact NVT Phybridge at www.nvtpybridge.com/support/ or directly through email at support@nvtpybridge.com

Warranty

The FLEX adapters are backed by NVT Phybridge's award-winning customer support and 5-year warranty.