

QUICK INSTALL GUIDE - FLEX ADAPTERS

The FLEX-Link and FLEX-C adapters enable extended Ethernet and PoE reach beyond traditional distances using 1, 2 or 4 pair UTP infrastructure. The adapters, when used with the FLEX Switch or FLEX-Base, deliver 10/100Mbps (symmetrical, full duplex) and PoE (up to 50W) over 1- (needs local power), 2-, or 4-pair UTP/STP with up to 2,000ft (610m) reach. 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.

The FLEX adapters are extremely simple to use with no IP or MAC address configuration required. Status LEDs indicate power and link connectivity/activity for RJ45 ports.

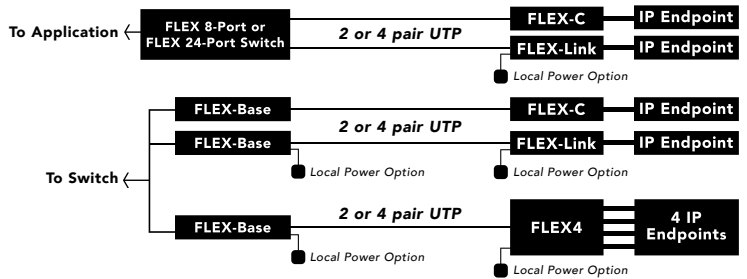
NOTE: Please see page 2 for Safety Warnings and Precautions

1 RJ45 port: UTP cable (2-pair or 4-pair)

Cable Type	Data Rate	Reach
4 pair CAT5e	100Mbps	2,000ft / 610m
2 pair CAT5e	100Mbps 10Mbps	1,000ft / 300m 2,000ft / 610m
1 pair CAT5e	100Mbps 10Mbps	1,000ft / 300m 2,000ft / 610m (adapter must be locally powered)

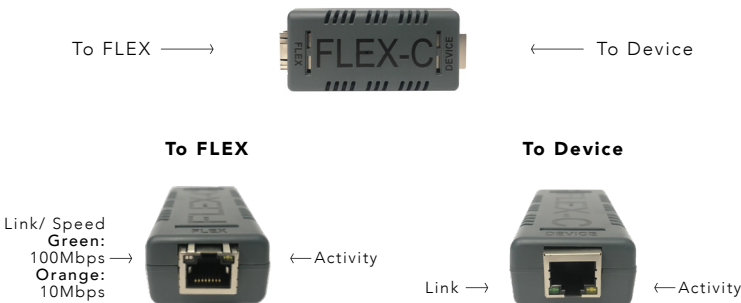
FLEX Adapter Applications

10/100 Mbps (full duplex, symmetrical) & PoE++ over multi-pair UTP with 2,000ft (610M) reach.



NOTE: FLEX-Link max. power 50W over 4 pairs and FLEX-C maximum power 30W over 2 pairs

FLEX-C



Installation Details

1. Remove the FLEX-C from its packaging.
2. 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-C.
3. Connect the Network Infrastructure cable from the FLEX24 switch or FLEX-Base to the FLEX-C (FLEX side).
4. Using CAT5 or higher category cable, connect the endpoint to FLEX-C (Device side).

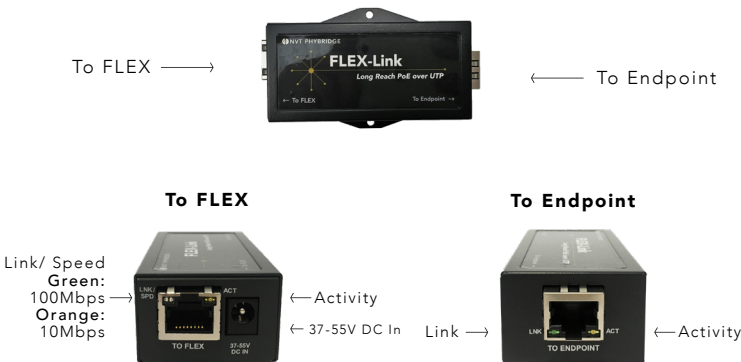
NOTE: FLEX-C can be used with FLEX24 switch or FLEX-Base

Product Details (NV-FLXLK-C)

- Paired with FLEX24, FLEX8 or FLEX-Base
- Up to 30W PoE
- PoE on spare pairs
- Supports IEEE compliant devices



FLEX-Link



Installation Details

1. Remove the FLEX-Link from its packaging.
2. 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-Link.
3. Connect the Network Infrastructure cable from the FLEX24 switch or FLEX-Base to the FLEX-Link (FLEX side).
4. Using CAT5 or higher category cable, connect the endpoint to the FLEX-Link (Endpoint side).

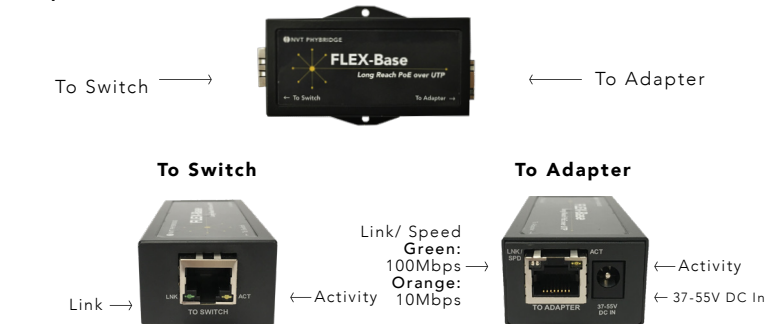
NOTE: FLEX-Link can be used with FLEX24 switch or FLEX-Base

Product Details (NV-FLXLK)

- Paired with FLEX24, FLEX8 or FLEX-Base
- Up to 50W PoE
- PoE on 4 pairs
- Local power option
- IEEE compliant



FLEX-Base



Installation Details

1. Remove the FLEX-Base from its packaging.
2. 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.
3. Connect FLEX-Base (Switch side) to downlink port on switch.
4. Connect the Network Infrastructure cable from the FLEX-Base (Adapter side) to FLEX-Link or FLEX-C (FLEX side).
5. Using CAT5 or higher category cable, connect the endpoint to the FLEX-Link or FLEX-C (Endpoint/Device side).

NOTE: FLEX-Base can be used with FLEX-Link or FLEX-C

Product Details (NV-FLXLK-Base)

- Paired with FLEX-Link or FLEX4
- Up to 50W PoE
- Local power option
- IEEE compliant



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.



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

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

FLEX-Link and FLEX-Base

- **CAUTION**, Hot surface
- **ATTENTION**, Surface chaude
- **VORSICHT**, Heiße Oberfläche
- **PRECAUCIÓN**, Superficie caliente
- **VAROITUS**, Kuuma pinta
- **VOORZICHTIGHEID**, Heet oppervlakte
- **VARNING**, Varm yta
- **ADVARSEL**, Varm overflate
- **ΠΡΟΣΟΧΗ**, Καυτή επιφάνεια
- **ATTENZIONE**, Superficie calda
- **CUIDADO**, Superficie quente
- **ATTENZJONI**, Wiċċ shun
- **ETTEVAATUST**, Kuum pind
- **VIGYÁZAT**, Forró felület
- **PREVIDNOST**, Vroča površina
- **POZOR**, Horký povrch
- **ATSARGIAI**, Karštas paviršius
- **UZMANĪBU**, Karstā virsma
- **POZOR**, Horúci povrch
- **VARŪD**, Heitt yfirborð
- **PRZESTROGA**, Gorąca powierzchnia
- **FORSIKTIG**, Varm overflate
- **PRUDENTĂ**, Suprafața fierbinte
- **ВНИМАНИЕ**, Гореща повърхност

Compliance and Environmental Information

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

Technical Specifications

Model Number	FLEX-C	FLEX-Link	FLEX-Base
Part Number	NV-FLXLK-C	NV-FLXLK	NV-FLXLK-BSE
Dimensions (L x W x H)	3.19" x 1.50" x 0.90" (8.1cm x 3.8cm x 2.3cm)	3.46" x 2.16" x 0.98" (8.8cm x 5.5cm x 2.5cm)	3.46" x 2.16" x 0.98" (8.8cm x 5.5cm x 2.5cm)
Weight	1.5oz (44g)	4oz (114g)	14oz (114g)
Interface: Network Infrastructure side (FLEX)	1 RJ45 port: UTP/STP cable (2-pair or 4-pair)	1 RJ45 port: UTP/STP cable (2-pair or 4-pair)	1 RJ45 port: UTP/STP cable (2-pair or 4-pair)
Interface: IEEE Side (IP Device)	1 RJ45 port; device must be IEEE 802.3 af/at compliant	1 RJ45 port; device must be IEEE 802.3 af/at compliant 50W, 10/100Mbps connection to IP end device	(For General/PoE Switch) 1 RJ45 port: supports negotiation with IEEE 802.3 af/at switches
Power Supply	PoE from the FLEX24 or FLEX8 switches or local power from FLEX-Base, maximum 30W (over 2-pairs)	PoE from the FLEX24 or FLEX8 switches or external power supply; maximum 50W (over 4-pairs) or 30W (over 2-pairs)	PoE from standard PoE switch, or external power supply; maximum 50W (over 4-pairs) or 30W (over 2-pairs)
DC IN (Barrel Connector)		Optional (sold separately) 48V – 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.	Optional (sold separately) 48V – 56VDC via an external AC/DC Power Adapter (IEC Class II isolated only) NOTE: local power supply must have its output isolated from Earth potential.
Power Consumption	1.3W	1.5W	1.5W
Operating Temperature	-40°F to 158°F (-40°C to 70°C) Tests conducted against international safety standard at maximum ambient temperatures of 140°F (60°C) at 15W and 122°F (50°C) at 30W	40°F to 158°F (-40°C to 70°C) Tests conducted against international safety standard at maximum ambient temperatures of 140°F (60°C) at 15W and 122°F (50°C) at 30W	40°F to 158°F (-40°C to 70°C) Tests conducted against international safety standard at maximum ambient temperatures of 140°F (60°C) at 15W and 122°F (50°C) at 30W
Humidity	10% to 95% (non-condensing) at 95°F (35° C)	10% to 95% (non-condensing) at 95°F (35° C)	10% to 95% (non-condensing) at 95°F (35° C)

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 +1 905.901.3633 or support@nvtpybridge.com.

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