

## FLEX EXTENDER KIT

The FLEX Extender Kit is a robust long reach single port UTP solution. The kit includes a FLEX-Base and FLEX-Link adapter and a 60 Watt 55V power supply. The FLEX-Link when connected to the FLEX-Base unit via 2 or 4 pair UTP can deliver 100Mbps (symmetrical full duplex) with up to 50 watts of power with 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.

FLEX-Base



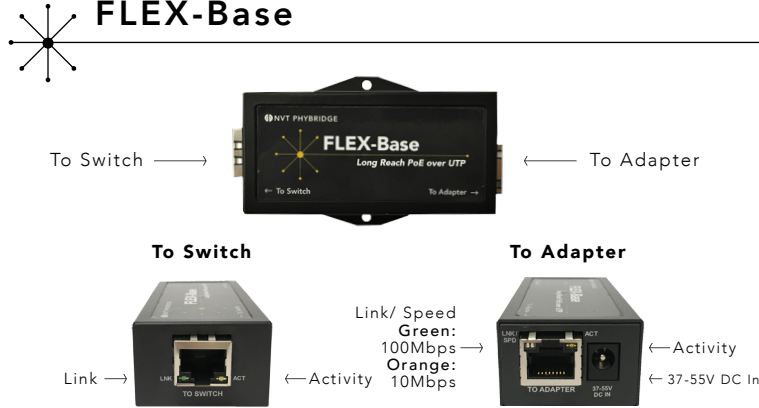
FLEX-Link



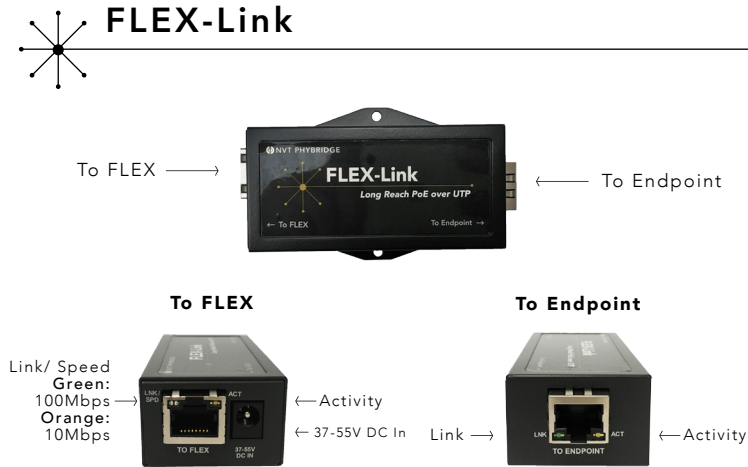
FLEX4

Available  
Late 2017

### FLEX-Base



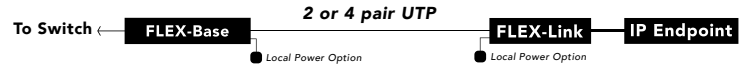
### FLEX-Link



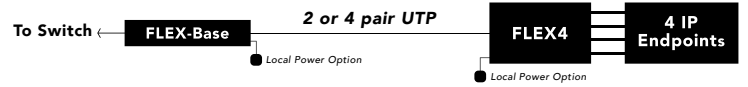
## FLEX Adapter Applications

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

### FLEX-Link Extender Kit



### FLEX4 Extender Kit



NOTE: Please see page 2 for important safety instructions

## 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 (FLEX side).
5. Using CAT5 or higher category cable, connect the endpoint to the FLEX-Link (Endpoint side).

### Product Details (NV-FLXK-Base)

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

## 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-FLXK)

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

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

Cable Type	Data Rate	Reach
4 pair CAT5e	100 Mbps	610m/ 2000ft
2 pair CAT5e	100 Mbps	300m/1000ft
2 pair CAT5e	10 Mbps	610m/2000ft
1 pair CAT5e	100 Mbps	300m/1000ft (adapter must be locally powered)

## Product Description

These 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.

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

As an option, both the FLEX-Link and FLEX-Base can be powered by an external Power adapter with the following characteristics:

- Class 2,
- Efficiency VI
- Input voltage 100-240VAC, 50-60Hz
- Output voltage 55VDC / 1A or 2A
- Output connector: power barrel plug (2.1mm ID and 5.5mm OD)

NVT Phybridge Part Numbers for the Power Supplies are:

- NV-PS55-60W: 55VDC at up to 1000mA (for FLEX-Link or FLEX-Base)
- NV-PS55-110W: 55VDC at up to 2000mA (for FLEX-Base)

## Important Safety Instructions

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this apparatus near water.
- 6) Clean only with a dry cloth.
- 7) Install in accordance with the manufacturer's instructions.
- 8) Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including DVRs) that produce heat.
- 9) Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 10) Only use attachments and accessories specified by the manufacturer.
- 11) Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as a power supply cord or plug is damaged, liquid has been spilled, or objects have fallen into the apparatus, the apparatus has been exposed

to rain or moisture, does not operate normally, or has been dropped.

This installation should be made by a qualified service person and should conform to all local codes.

12) RJ45 PoE connection: to be connected only to networks or circuits that are not routed to outside plant or building.

TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT REMOVE COVER OR BACK. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

WARNING: TO REDUCE THE RISK OF ELECTRICAL SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.

## Compliance and Environmental Information

All the compliance and environmental information is available on our website [www.nvtpybridge.com](http://www.nvtpybridge.com).

### Safety Warnings

- 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-adaptare
- 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-adaptare
- 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.