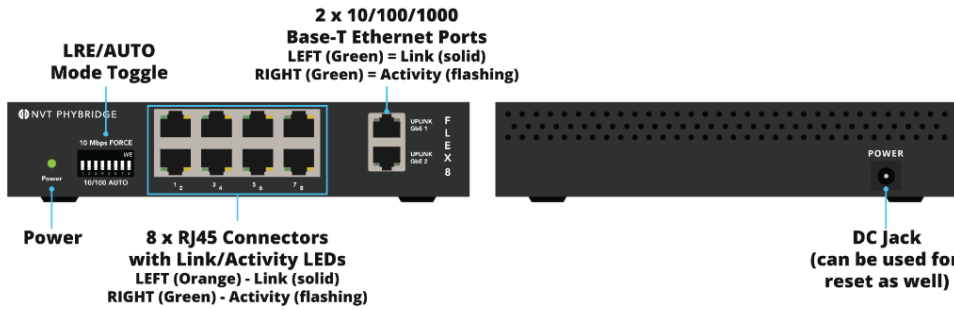
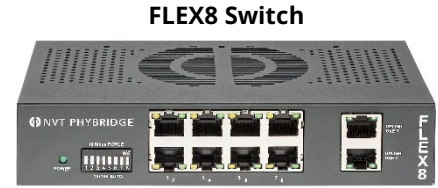


Quick Install Guide: FLEX8

The NVT Phybridge FLEX8 plug-and-play long reach 1, 2 or 4 Pair UTP PoE Switch is a versatile, secure, high-powered, enterprise-class solution that delivers fast Ethernet (100Mbps full duplex, symmetrical) and up to PoE++ (50W per port) over 4-pair UTP for up to 2,000ft (610m) – that’s 6Xs the distance of typical PoE switches. Visit www.nvtpybridge.com for more information.

NOTE: Please see page 3 for important safety instructions



FLEX8 Package Includes:

- 1 x FLEX8 Unit
- 1 x Mounting Bracket Kit
- 1 x AC/DC Power Adapter
- 1 x Quick Install Guide
- 4 x Rubber Feet

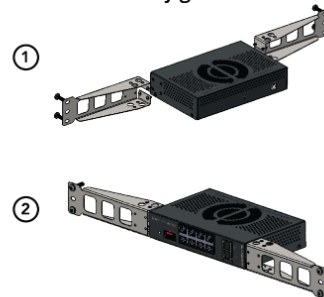
Installation Details

NOTE: If you are considering single pair UTP deployment, you will require the FLEX-Link and FLEX4 adapters to be locally powered.

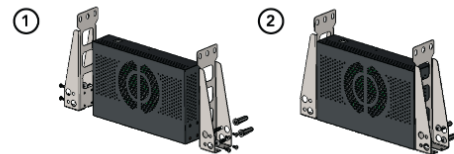
- Review installation instructions and the Distance and Power Table.
- Ensure that your IP devices are IEEE 802.3 af/at compliant and PoE requirements can be supported given cable type and distance.
- To ensure proper ventilation of the FLEX8, leave at least 2 inches of unobstructed space on all sides of the unit.
- Properly mount the FLEX8 switch in its final location before connecting endpoints. (See Mounting Options Below)
- Make sure cable between downlink ports and adapters or IP end points are properly terminated before connecting to switch. **NOTE:** Single port adapters will establish a connection with the head end switch after an IP end point is connected.
- For endpoints within standard Ethernet reach (328ft/100m) connect directly to downlink ports. For extended reach, use FLEX adapters (FLEX-C, FLEX-Link or FLEX4) in between the end point and the switch.
- The FLEX-Link and FLEX4 can be deployed up to 2000ft away from the FLEX8 and can deliver up to 50 Watts of power.
- The FLEX-C can be deployed up to 2000ft away from the FLEX8 and can deliver up to 30 Watts of power.
- The FLEX8 out of the box operates in 10/100 Mbps Auto Speed mode; if 10 Mbps is required, it can be forced via the speed toggle located on the front of the unit.
 - The forced 10Mbps feature can be used when the auto negotiation is not achieving a link between the switch and adapter.
- Connect the uplink GbE 1 or GbE 2 port to the network switch or directly to your application. Uplink ports can be daisy chained.
- Ensure power supply is securely connected to FLEX8.
- Power up the FLEX8 switch.

Rack Mount Options

Rack Mount Configuration



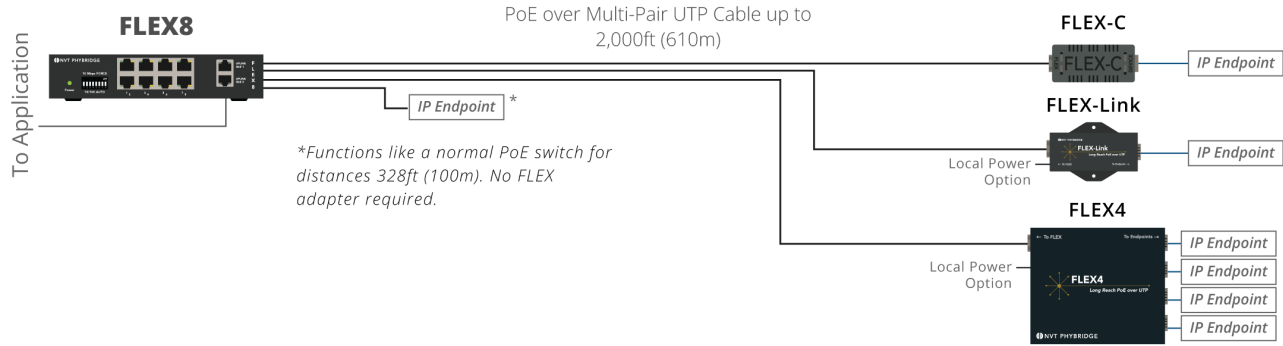
Wall Mount Configuration



Downlink Port LED Indicators	
Solid orange (left)	means link is established
Flashing green (right)	represents activity
Both orange and green flashing (2x per second)	represents a short on line. Please correct cable infrastructure.

Quick Install Guide: FLEX8

FLEX 8 Hardware Topology



PoE Power Available to FLEX-Link, FLEX4 and FLEX-C

FLEX8 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
FLEX8 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
FLEX8 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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Technical Specifications

Model	FLEX8
Part Numbers	NV-FLX-08
Dimensions	<ul style="list-style-type: none"> 7.09" x 4.53" x 1.45" (LxWxH) 18cm x 11.5cm x 3.68cm, (LxWxH)
Weight	1.3 lbs (0.59 kgs)
Mounting	Standalone, rack or shelf-mountable; 2 brackets included for installation
Interface: Ethernet Uplink (Trunk IP)	2 RJ45 ports: 10/100/1000 Base-T autosensing, independent speed selection, Ethernet IEEE 802.3, CAT5e copper cable
Interface: Downlink (PoE and IP to Adapter)	8 x RJ45 Jacks Speed: 10/100Mb/s (full duplex) PoE Power: <ul style="list-style-type: none"> 50 Watts Maximum on 4-Pairs 30 Watts Maximum on 2-Pairs
Power Supply	48-58VDC (55VDC, 190W power supply included)
Power Consumption	6W
Power Injection (PoE)	DC voltage: 48VDC to 58VDC IEEE 802.3af/at If power is provided on all 4-pairs then maximum 50W; If power is provided on 2-pairs then maximum 30W
Operating Temperature	+14°F to +149°F (-10°C to +65°C) Tests conducted against international safety standard at maximum ambient temperatures of +104°F (40°C)
Humidity	10% to 95% (non-condensing) at +95°F (+35°C)
Ambient Temperature	Minimum ambient temperature for cold start-up is 32°F (0°C)

Specifications subject to change without notice.

Quick Install Guide: FLEX8

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.

⚠ 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

- Access to the interior of this unit shall be made only by a qualified technician.
- To ensure adequate cooling of the equipment, a 2-inch unobstructed space must be provided around all sides of the unit.
- To prevent the risk of shock or fire hazard, replace fuse with same type and rating.
- Der Zugang ins Innere des Gerätes ist nur einem fachlich qualifizierten Techniker gestattet.
- Um die Kühlung des Gerätes nicht zu beeinträchtigen, ist es notwendig, an allen Seiten des Gerätes ca 5 cm Raum zu lassen.
- Zur Vermeidung der Stromschlag-und Feuergefahr beim Auswechseln Sicherungen des gleichen Typs und der gleichen Nennleistung einsetzen.
- Seul un spécialiste doit avoir accès l'appareil.
- Afin de ne pas nuire au processus de refroidissement, il est nécessaire de laisser un espace d'environ 5 cm de chaque côté de l'appareil.
- Afin d'éviter tout risque d'incendie ou d'électrocution, remplacez les fusibles par des fusibles de même type et ampérage.
- El acceso al interior de esta unidad deberá ser realizado únicamente por un técnico cualificado.
- Para asegurar un enfriamiento adecuado del equipo, se debe proporcionar un espacio sin obstrucciones de 2 pulgadas alrededor de todos los lados de la unidad.
- Para evitar el riesgo de choque o peligro de incendio, reemplace el fusible con el mismo tipo y clasificación.
- L'accesso all'interno di questa unità `deve essere effettuata solo da un tecnico qualificato.
- Per garantire un adeguato raffreddamento dell'apparecchiatura, uno spazio libero da 2 pollici deve essere fornita intorno a tutti i lati dell'unità.
- Per evitare che la prevenzione del rischio di scossa o di pericolo di incendio, sostituire il fusibile con lo stesso tipo e valore.
- Достъп до вътрешността на този уред трябва да се извършва само от квалифициран техник.
- За да се осигури подходящо охлаждане на оборудването, трябва да се осигури 2-инчово свободно пространство около всички страни на устройството.
- За да предотвратите опасност от удар или пожар, сменете предпазителя със същия тип и квалификация.
- Juurdepääs interjööri selle üksuse tehakse ainult kvalifitseeritud tehnik.
- Jahutuse tagamiseks seadme, 2-tolline vaba ruum peab olema ümber kõik küljed üksus.
- Selleks, et vältida riski ning tulekahjuoht, vaheta kaitse sama tüüpi ja hinnang.
- Η πρόσβαση στο εσωτερικό της μονάδας πρέπει να γίνεται μόνο από εξειδικευμένο τεχνικό.
- Για να εξασφαλιστεί η κατάλληλη ψύξη του εξοπλισμού, πρέπει να υπάρχει ένας ελεύθερος χώρος 2 ιντσών γύρω από όλες τις πλευρές της μονάδας.
- Για να αποφύγετε τον κίνδυνο κρούσης ή πυρκαγιάς, αντικαταστήστε την ασφάλεια με τον ίδιο τύπο και την ίδια βαθμολογία.
- Piekļuve interjera šīs vienības veic tikai kvalificēts tehniķis.
- Lai nodrošinātu pietiekamu dzesēšanu iekārtu, 2 collu aizsegts telpu jānodrošina ap visām pusēm vienības.
- Lai novērstu risku, ka trieciena vai ugunsgrēka briesmas, nomainīt drošinātāju ar tāda paša veida un reitingu.
- Prieiga prie šio įrenginio viduje, turi būti atlikti tik kvalifikuotas specialistas.
- Siekiant užtikrinti tinkamą aušinimą įranga, 2 colių užgriozdinti erdvę turi būti pateikta apie visus įrenginio pusių.
- Siekiant užkirsti kelią šoko ar gaisro pavojus riziką, pakeiskite saugiklį su tos pačios rūšies ir įvertinimas.
- A készülék belsejét csak szakképzett szakember végezheti.
- A berendezés megfelelő hűtésének biztosítása érdekében egy 2 hüvelykes, akadálytalan helyet kell biztosítani a készülék minden oldalán.
- Az ütésveszély vagy a tűzveszély elkerülése érdekében cserélje ki az azonos típusú és minősített biztosítékot.
- Toegang tot het interieur van dit toestel wordt alleen door een gekwalificeerde technicus uitgevoerd.
- Om een adequate afkoeling van de apparatuur te garanderen, moet een 2-inch vrijstaande ruimte rondom alle kanten van het apparaat worden aangebracht.
- Om het risico op schokken of brandgevaar te voorkomen, vervang de zekering met hetzelfde type en de waarde.
- Tilgang til det indre av denne enheten skal kun utføres av en kvalifisert tekniker.
- For å sikre tilstrekkelig kjøling av utstyret, må det være 2 tommers uhindret plass rundt alle sider av enheten.
- For å unngå fare for støt eller brannfare, bytt sikring med samme type og karakter.

Quick Install Guide: FLEX8

- Dostęp do wnętrza tego urządzenia wykonuje tylko wykwalifikowany technik.
 - W celu zapewnienia odpowiedniego chłodzenia urządzenia, wokół wszystkich stron urządzenia musi być umieszczona 2- calowa przestrzeń bez przeszkód.
 - Aby uniknąć ryzyka porażenia prądem lub pożaru, wymień bezpiecznik na ten sam typ i poziom.
- O acesso ao interior desta unidade deve ser efectuado apenas por um técnico qualificado.
 - Para assegurar o resfriamento adequado do equipamento, um espaço sem obstruções de 2 polegadas deve ser fornecido em torno de todos os lados da unidade.
 - Para evitar o risco de choque ou incêndio, substitua o fusível pelo mesmo tipo e classificação.
- Accesul la interiorul acestui aparat trebuie efectuat numai de către un tehnician calificat.
 - Pentru a asigura o răcire adecvată a echipamentului, trebuie prevăzut un spațiu liber de 2 inci pe toate laturile unității.
 - Pentru a preveni riscul de șoc sau de pericol de incendiu, înlocuiți siguranța cu același tip și clasificare.
- Dostop do notranjosti te enote se izvede le strokovnjak.
 - Da bi zagotovili ustrezno hlajenje opreme, mora 2-palčni neoviran prostor, je treba zagotoviti okoli vse strani enote.
 - Da bi preprečili nevarnost udara ali nevarnosti požara, zamenjajte varovalko iste vrste in jakosti.
- Prístup do interiéru tohto prístroja môže vykonať iba kvalifikovaný technik.
 - Aby bolo zabezpečené dostatočné chladenie zariadenia, musí byť okolo všetkých strán jednotky k dispozícii 2-palcový neobmedzený priestor.
 - Aby ste zabránili nebezpečenstvu výbuchu alebo požiaru, vymeňte poistku rovnakého typu a typu.
- Tämän laitteen sisätilojen saa suorittaa ainoastaan pätevä teknikko.
 - Laitteen riittävän jäähdytyksen varmistamiseksi on järjestettävä 2 tuuman esteettömät tilat laitteen kaikkien puolien ympärille.
 - Vaihda sulake saman tyyppisellä ja luokalla, jotta iskun tai tulipalon vaara ei onnistu.
- Tillgång till det inre av denna enhet ska endast utföras av en kvalificerad tekniker.
 - För att säkerställa tillräcklig kylning av utrustningen måste ett 2-tums fritt utrymme tillhandahållas runt alla sidor av enheten.
 - För att undvika risk för chock eller brandfara, byt ut säkring med samma typ och betyg.
- Prístup do interiéru tohoto přístroje může provádět pouze kvalifikovaný technik.
 - Aby bylo zajištěno dostatečné chlazení zařízení, musí být kolem všech stran jednotky k dispozici 2-palcový neomezený prostor.
 - Abyste zabránili nebezpečí výbuchu nebo požáru, vyměňte pojistku stejného typu a typu.
- Aðgangur að innanverðu þessa eininga skal aðeins gerð af viðurkenndum tæknimanni.
 - Til að tryggja fullnægjandi kælingu búnaðarins verður að vera með 2 tommu óhindrað pláss fyrir alla hliðum tækisins.
 - Til að koma í veg fyrir hættu á losti eða eldhættu skal skipta um öryggi með sömu tegund og einkunn.
- Access għall-intern ta 'din l-unità għandha ssir biss minn tekniku kkwalifikat.
 - Biex jiġi żgurat tkessiġ adegwat tat-tagħmir, 2-pulzier spazju mhux mfikkel għandhom ikunu provduti madwar naħat kollha tal-unità.
 - Biex ikun evitat ir-riskju ta 'xokk jew perikolu ta' nar, jissostitwixxu fju bil istess tip u ratifika.
- Adgang til det indre af denne enhed skal kun foretages af en kvalificeret tekniker.
 - For at sikre tilstrækkelig afkøling af udstyret skal der være en 2-tommers uhindret plads på alle sider af enheden.
 - For at undgå risiko for stød eller brandfare udskiftes sikringen med samme type og rating.

Compliance and Environmental Information

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

Support

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.nvtphybridge.com/support/ or directly through email at support@nvtphybridge.com