Aerial Subscriber Node

Application

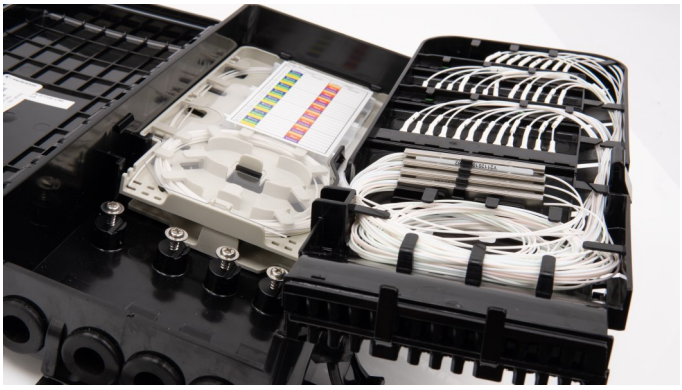
The aerial subscriber node is developed to provide a separation between the network build and the customer drop. Housing the drop connectors within the aerial node ensures that optical connectivity is both cost effective and secure.

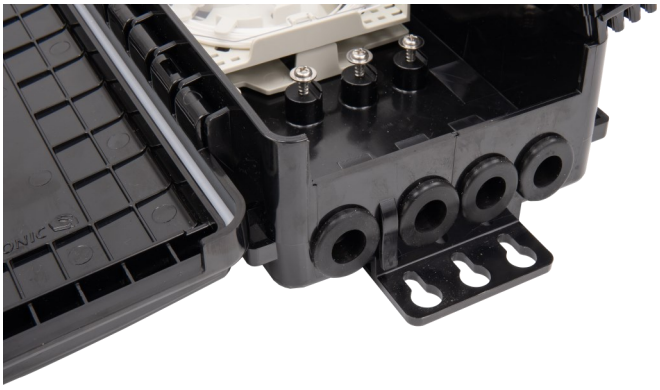
Optimised for fast deployment the closure can be supplied as a connectorized drop cables can then be installed at a later date without the risk of access to the delicate 250um fibres.

Up to 32 drop cable customer connections utilizing the 4 x 1:8 splitters serving up to 32 splitter product customers.

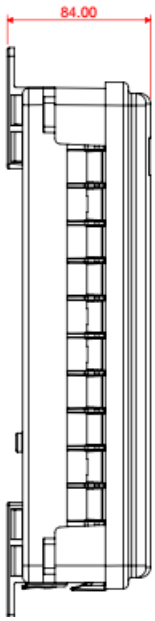
Typical Data

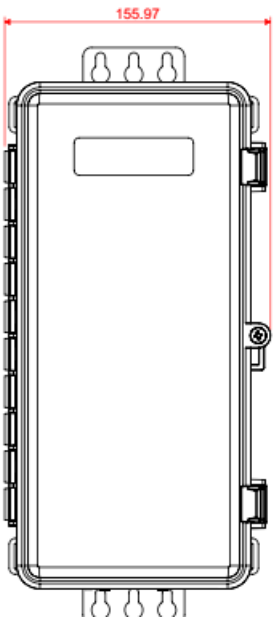
- 4 x 1:8 splitters serving up to 32 customers.
- IK08 impact-resistant enclosure.
- High quality hinge mechanism and clip system.
- Up to 32 customer drops.
- 4 x multi-fibre entry routes. (14mm)
- Secure, tamper-proof cover.
- Physical separation of splicing area and customer drop connections.
- Pole or building façade mounting features.
- Working temperature -40ºC to +70ºC
- IP55.
- UV resistant protection to IK08.
- PIA compliant.

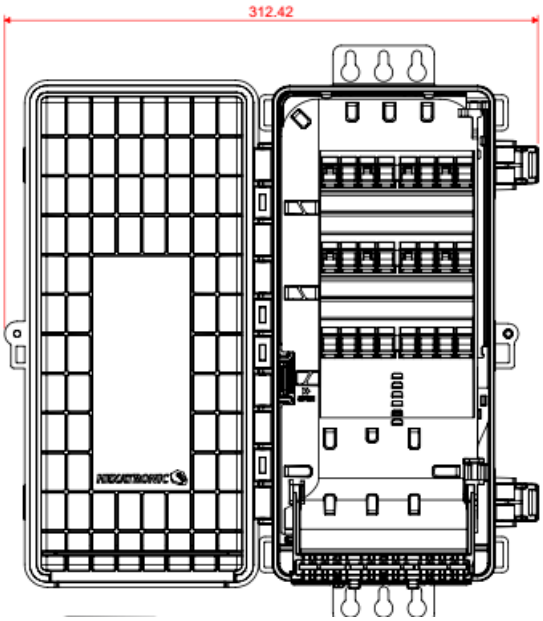


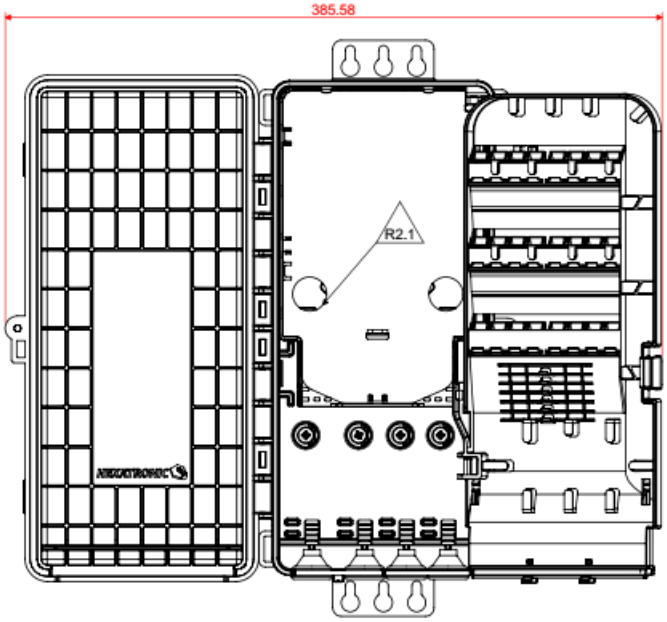


Dimensions









Cable Retention

The aerial subscriber node can accept 4 cables up to 14mm in diameter. The cable entry points are capably of mid-span access as well as branch access.

Drop Cable Capacity

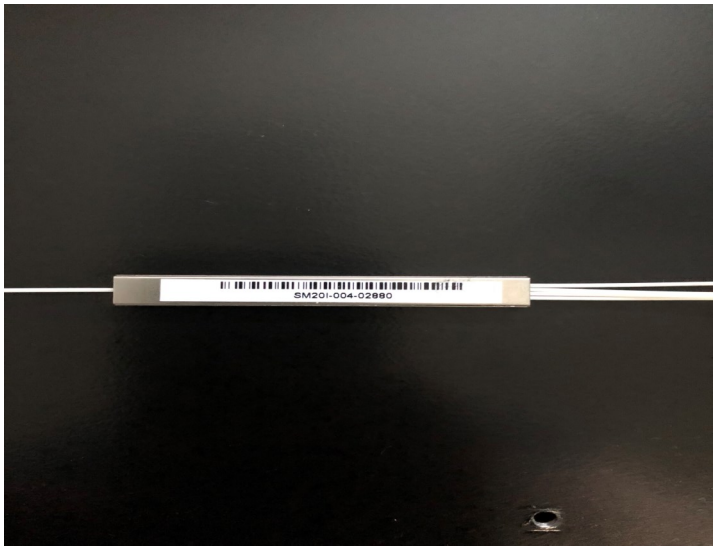
Customer drops from the aerial subscriber node are routed via individual cable retention clamps at the base of the enclosure.

The enclosure retention clamps are suitable for 3mm and 5mm cable. The clamp mechanism hinges with the patch field making it possible to access splice cassettes underneath without disconnecting customers.

Splitter Specifications 1:8

Mechanical and Environmental

Parameter:	Test:	Value:
Temp cycling	-40 / +70c - IEC 61300-2-22	No attenuation change
Water immersion	20 +/- 2c -IEC 61300-2 45	No attenuation change
Combined temp / Humidity	10 cycles 20, 65, 20, 65, 20, -10, 20	No attenuation change
Vibration	IEC 61300-2-1	No attenuation change
Shock (15g)	IEC 61300-2-1	No attenuation change
Torsion (2N each fibre)	IEC-61300-2-1	No attenuation change
Vibration (10-500Hz, 10 cycles)	IEC-61300-2-1	No attenuation change



Optical Performance

Parameter:	Unit	Value
Operating wavelength	nm	1260-1650
Insertion loss	dB	10.3
Uniformity (Max.)	dB	0.8
PDL (Max.)	dB	0.2
TDL (Max).	dB	0.5
Return loss	dB	≥60 (APC type connectors) / 50(UPC type connectors
Directivity	dB	≥55
Working power		Long term: 500mW

ASN Bracket

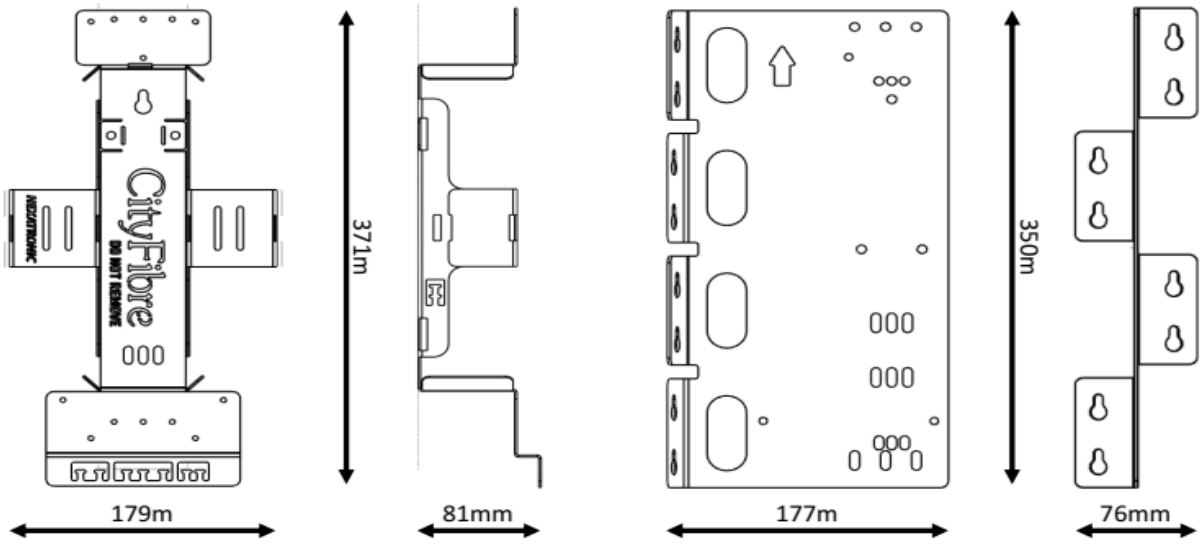
The compact ASN bracket is developed to provide a mounting base for the Hexatronic aerial subscriber node. The raised mounting profile facilitates a compact cable storage area behind the ASN.

The bracket can be wall or pole mounted. When pole mounting, the fixing can be either using metal straps or with screws. The compact bracket enables the storage of excess cable behind the enclosure as well as providing additional anchor points.

The enclosure is capable of having a looped cable installed to support the mid-span installation and spur cables with a minimum of four distribution network cables entry ports and stain relief.

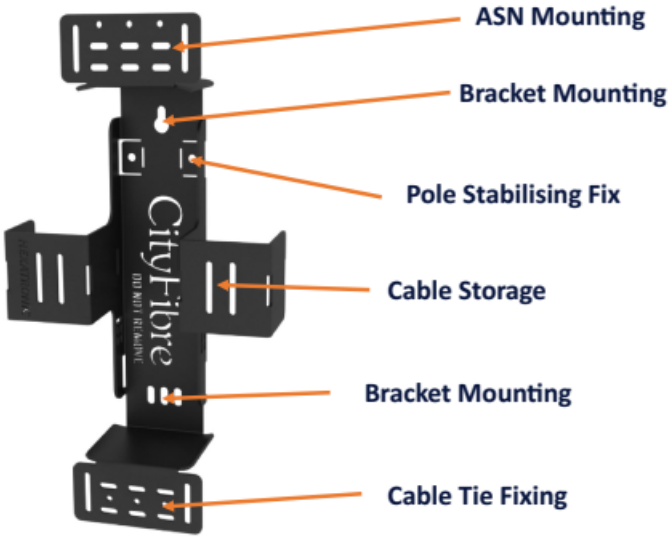
Features

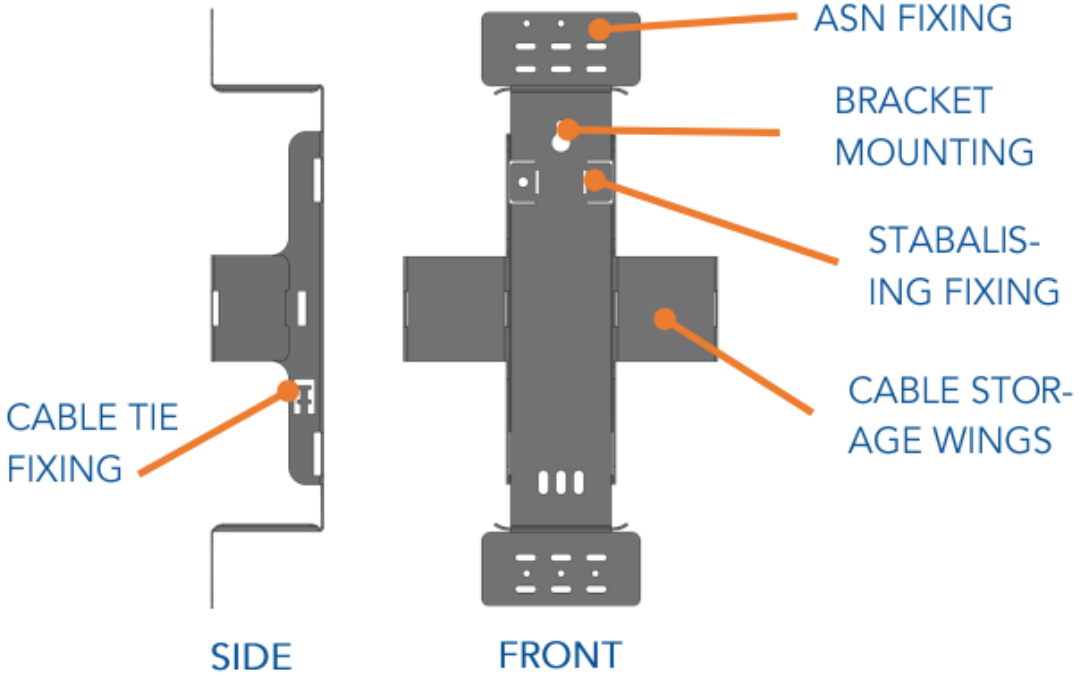
- Keyhole screw mounting at top of bracket
- Stainless steel.
- Stabilizing fixing points to reduce rocking on pole.
- Universal box mounting space.
- Cable tie restraint fixings around storage area.
- Durable rust resistant powder coated finish.
- Available in black or grey.
- Rear cable storage compartment.
- Additional cable anchoring points.
- ASN bracket - 371x179x81mm (HxWxD)
- Dual bracket - 350x76x177mm (HxWxD)



ASN Bracket

The ASN has a variety of bracket options. Hexatronic have developed a bracket specific to Cityfibres requirements.

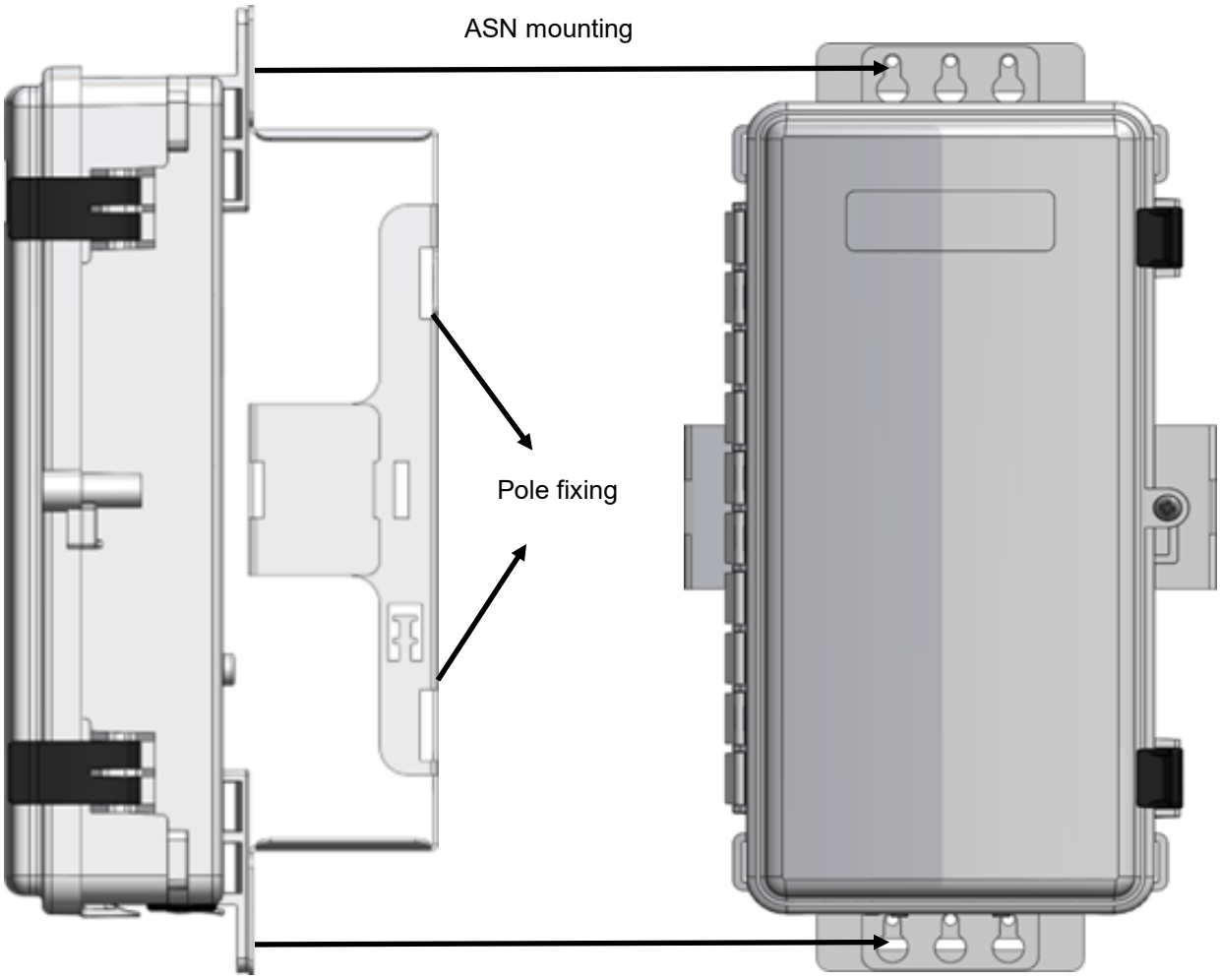




ASN Bracket

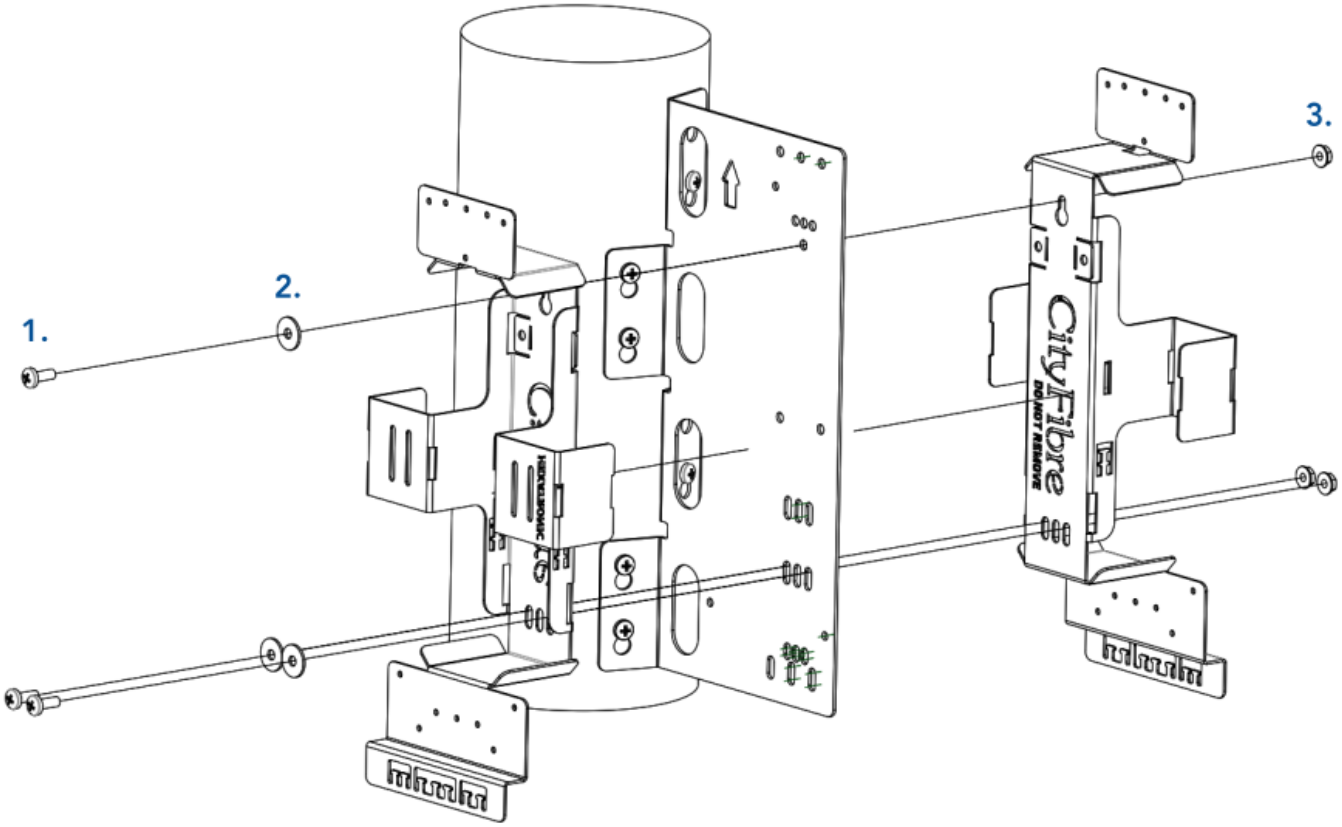
Use 25mm pan-head screws to mount bracket to pole/wall. Ensure screws are galvanised to prevent rust. If mounting to a pole use the additional stabilising holes to prevent bracket from rocking.

To attach ASN to bracket use M4 tap-tight screws at SN mounting holes highlighted in the below diagram.



ASN Bracket

The Hexatronic dual ASN bracket has been designed for situations in which more than one ASN is required on a single pole. By placing two ASN's back to back the capacity is doubled without taking up additional space at the top of the pole. ASN brackets are fixed to the dual bracket as shown below using the screw kit provided.



1. M4x16 screw x 3
2. M6 washer x 3
3. M6 serrated nut x 3

ASN Bracket

Cable Storage

The ASN bracket can store a maximum of 20m of ULW cable or 10m either side of the mid-span. All cables should be coiled clockwise to allow for easy winding and un-winding and secured inside the cable storage wings with black cable ties. When winding the cable into the bracket make sure not to exceed the 30mm minimum bend radius. When cables are entering the ASN employ a large loop beneath the bracket to prevent any sharp turns.

Ordering Information

Part number	Description
CFNB-ASN-B-P32-1X8-ALC	ASN - Aerial Distribution Node 32 fibre Split/Patch