# SMARTER MDU FTTH Plug and Play Passive Solution Datasheet

Main Distribution Box (MDB)

Characteritics

- Moulded enclosure with integrated sealing
- Modular configuration with splitters, splices and patches
- Modular configuration with SCM, MCM or Splitter Cassettes
- Standard with 8 splice cassettes (MCM 12F)
- Standard with 4 splitter cassettes – individually equipped
  with splitters 1:2 / 2:2 / 1:4 / …. / 2:32
- Allows „Mid-span express" installation
- 1 front access adapter field (with 8 SC APC adapters)
- 10 Cable glands for ⌀3-12mm (round) distribution cables
- Locking system (triangular key)
- Door hinges on left and right side
- Installation on wall or pole - indoor or outdoor
- All fiber routes are safe acc. to the G652 specification
- Provisions for metallic armor earthing and strain relief
- Pre-assembled and factory tested
- Customized labeling on request
- Well protected packaging
- Optional 1 extra meter overlength path of distribution cables
- Optional 24 SC-APC adapter field on backside of Inlay
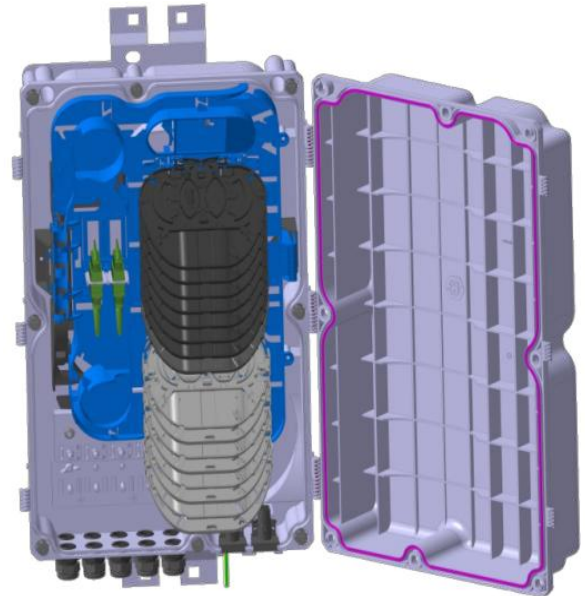
Technical data

Construction

Description	Values	Comment
Dimension (H x W x D)	510x320x150 mm	Rectangular type
Material	Aging resistant thermoplastic	(ABS/PC/PC+ABS – LSZH)
	Free from defects	grades approved from International certified laboratories
	Certified grades	
Color	RAL 7037	Grey
Locking mechanism	triangle lock	triangular screws
Cable gland	Polyamide + neoprene	
Flammability rating	UL94V0	
UV resistance	resistant	
RoHS requirements	fully met	
Halogen-free	Yes	

Mechanical and environmental data

Characteristics	Values	Tested acc. to	Comment
Mechanical rating	IK 09	EN 62262	
Protection rating	IP65	EN 60529	
Operating temperature range	-25° to +65°C	*EN 300 019-1-4*	*@ relative humidity of 15% to 100%*

Anatolia Cabling System offers to its clients Sterlite made MDU solutions .

Water condensation	No	*DIN 47609*
Durability	> 25 years	
RoHS and REACH	compliant	100% recyclable

Technical drawing

Height: 510 mm

Width: 320 mm

Depth: 150 mm
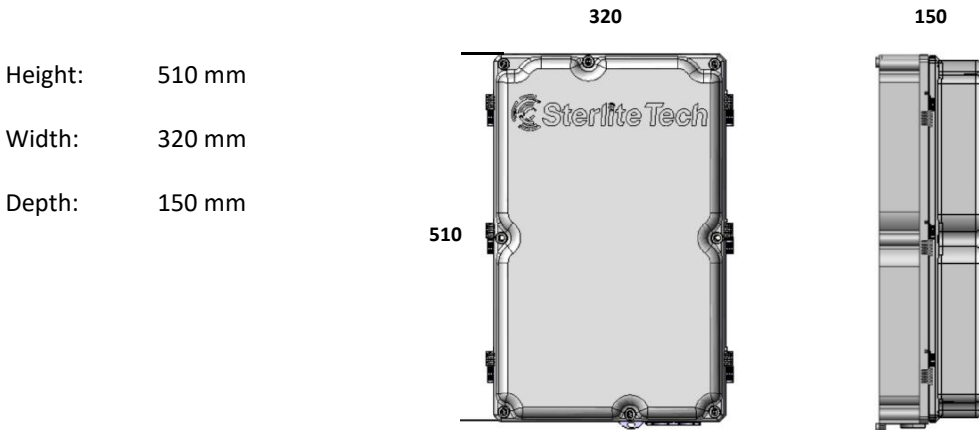
Bill of material

Picture	Description	Quantity	Picture	Description	Quantity
	MDB – housing	1		Triangular screw	8
	MDB – cover	1		Hinge axis	3
	MDB – Inlay	1		Splice cassettes (MCM 12F)	8
				Splitter cassettes – individual equipped	2
	MDB – earthing & strain relief plate	1	X	Adapter SC APC (assembled to adapter plate)	8
				Cable gland M20 (Sealing ⌀ 2.5-4mm)	10
	MDB – Cable sealing "midspan", Ø6.2 and Ø 7.1 mm	2	X	Fixation screws (⌀ 4mm x 40mm) and rawlplugs	3
	MDB – Pole mount bracket	2		Splitter 2:8	x

Optional components

Picture	Description	Picture	Description	
	MDB – Cable sealing for "mid-span": Ø9.5 and Ø10.5 (yellow) or Ø11.5 and Ø12.5 (green)	X	Splitter 1:2, 2:2, 1:4, 2:4, 1:8, 2:8, 1:16, 2:16, 1:32, 2:32	
		X	M20 Gland sealing insert (⌀ 6-12mm and ⌀ 5-9mm)	

Basement/Building Distribution Box (BDB)

Characteritics

- Moulded enclosure with metal fixation bracket
- Internal cable coil for up to 17m cable (⌀ 6.5mm)
- SC APC pre-termination on top end of cable
- Completely pre-assembled / easy installation
- Incoming cable is factory sealed
- Up to 2 incoming cables are possible (cable storage depend of the diameter)
- Incl. an adapter plate with 12 SC APC ports
- Incl. 6 cable glands (drop cables) for full SC feed through and cable sealing ⌀3mm (round)
- Splice holder (for up to 12 protectors)
- Locking system (e.g. screws with triangle key)
- Installation on wall or pole - indoor or outdoor
- Door hinges on left and right side
- All fiber routes are safe acc. to the G.657.A1 specification
- Provisions for metallic armor earthing
- Pre-assembled and factory tested
- Customized labeling on request
- Well protected packaging

Technical data

Construction

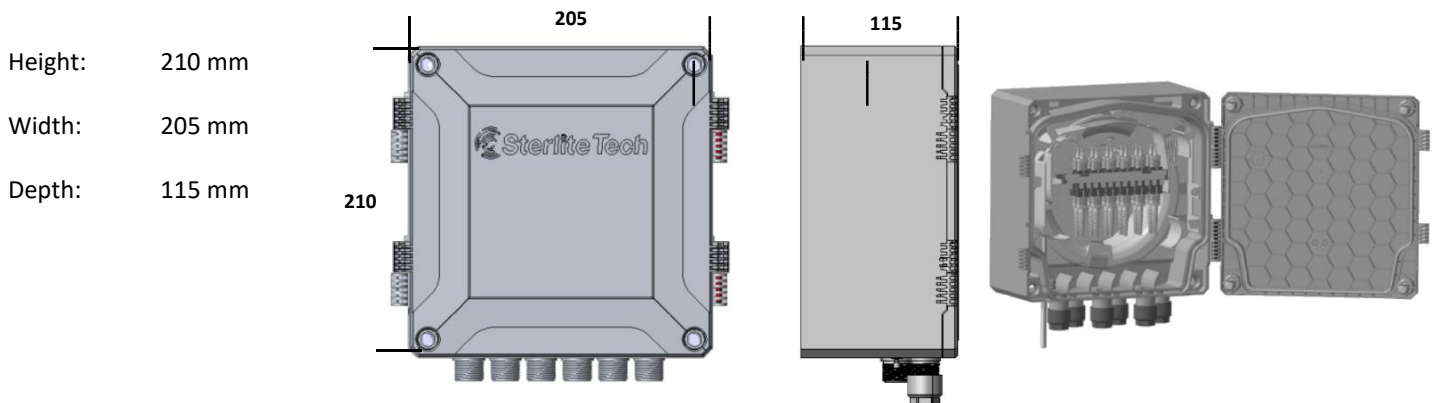| Description	Values	Comment
Dimension (H x W x D)	210 x 205 x 115mm	Flat (rectangular) type
Weight	~1800g	Incl. 17m of 12F cable (32kg/km)
Material	Aging resistant thermoplastic Free from defects Certified grades	(ABS/PC/PC+ABS – LSZH) grades approved from International certified laboratories
Color	RAL 7037	Grey
Locking mechanism	Screws and triangle lock	
Cable gland	Polyamide + neoprene	
Protection features	Fire retarding material LSZH UV protection	

Mechanical and environmental data

Characteristics	Values	Tested acc. to	Comment
Mechanical rating	IK 09	EN 62262,	
Protection rating	IP67	EN 60529	
Operating temperature range	-25° to +65°C	EN 300 019-1-4	@ relative humidity of 15% to 100%
Water condensation	No	DIN 47609	
Durability	> 25 years		
RoHS and REACH	compliant		

Technical drawing

Height: 210 mm

Width: 205 mm

Depth: 115 mm

205

115

210

Bill of material

Picture	Description	Quantity	Picture	Description	Quantity
	BDB – housing	1		Triangular screw	4
	BDB – cover	1		12F SM Optical Fiber Cable (≤Ø 6.5 mm) or 6F SM Optical Fiber Cable (≤Ø 3.5 mm)	17 m - 30 m
			X	Connector SC APC (assembled)	12
	BDB – reel	1	X	Adapter SC APC (assembled to adapter plate)	12
	BDB - fixation bracket	1		Double cable gland ⌀ 3.5mm	12
			X	Fixation screws (⌀ 4mm x 40mm) and rawlplugs	4
	BDB – Adapter plate	1		Hinge Axis	2
	BDB - Inlay	1		Earthing pin	1

Optional components (Available on Request)

- Extra length of **15/30/45/60/90/120** till **300 mtrs** of **6F or 12F** Spiral Armoured cable coiled outside the enclosure in throwaway spool

Fibre Access Terminal -8 (FAT-8)

Characteritics

- Moulded enclosure with metal fixation bracket
- Internal cable coil for up to 30m cable (⌀ 3mm)
- SC APC pre-termination on both cable ends
- Completely pre-assembled / easy installation
- Incoming cable is factory sealed
- Incl. 1 cassette splitter 1:8 (with 9 SC APC ports)
- Incl. 8 cable glands (drop cables) for full SC feed through and cable sealing 3x2mm (flat – optional round)
- 8x 1.4m over length management
- Splice holder (for up to 8 protectors)
- Locking system (e.g. screws with triangle key)
- Installation on wall or pole - indoor or outdoor
- Door hinges on left and right side
- All fiber routes are safe acc. to the G.657.A1 specification
- Provisions for metallic armor earthing
- Pre-assembled and factory tested
- Customized labeling on request
- Well protected packaging

Technical data

Construction

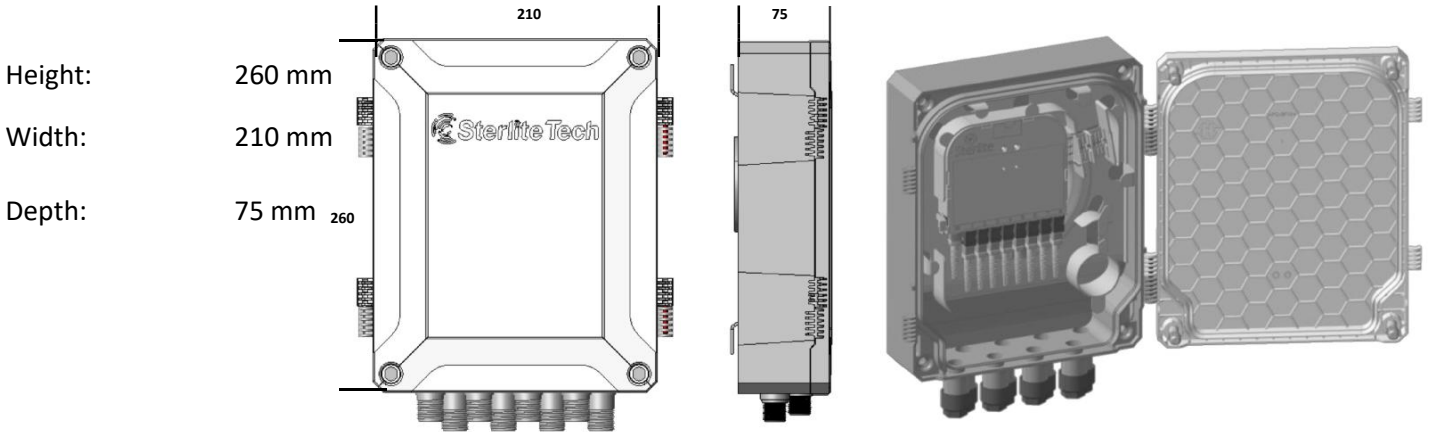| Description	Values	Comment
Dimension (H x W x D)	260 x 210 x 75mm	Flat (rectangular) type
Weight	~1250g	Incl. 30m 1F cable (13kg/km)
Material	Aging resistant thermoplastic Free from defects Certified grades	(ABS/PC/PC+ABS – LSZH) grades approved from International certified laboratories
Color	RAL 7037	Grey
Locking mechanism	Screws and triangle lock	
Cable gland	Polyamide + neoprene	
Protection features	Fire retarding material LSZH UV protection	

Mechanical and environmental data

Characteristics	Values	Tested acc. to	Comment
Mechanical rating	IK 09	EN 62262	
Protection rating	IP67	EN 60529	
Operating temperature range	-25° to +65°C	EN 300 019-1-4	
Durability	> 25 years		
RoHS and REACH	compliant		

Technical drawing

Height: 260 mm

Width: 210 mm

Depth: 75 mm

Bill of material

Picture	Description	Quantity	Picture	Description	Quantity
	FAT8 – housing	1		Triangular screw	4
	FAT8 – cover and sealing	1		1F SM Optical Fiber Cable (Ø 3.0 mm)	30m
				Cable glands	8
	FAT8 – reel incl. 30m cable	1		Glands sealing 3x2mm (flat cable)	8
	FAT8 - fixation bracket	1	X	Fixation screws (⌀ 4mm x 40mm) and rawlplugs	3
				Hinge Axis	2
	Cassette splitter (1:8)	1		Earthing pin	1
	Fiber guiding inlay	1			

Optional components (Available on Request)

- Extra length of **15/30/45/60/90/120** till **300 mtrs** of Spiral Armoured cable coiled outside the enclosure in throwaway spool
- Optional: Different splitter ratios: 1:2 and 1:4 can also be made available only on specific request from customer