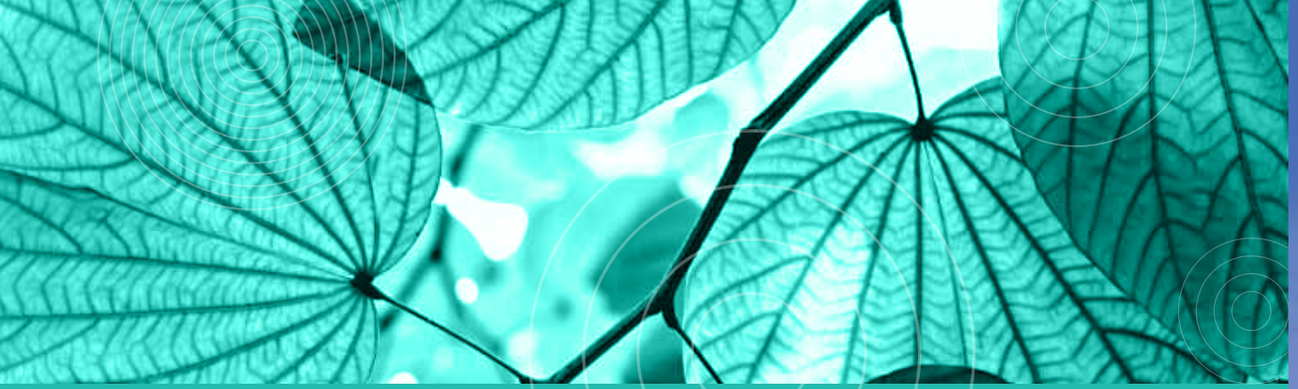
edotco Structure Catalogue

enabling connectivity

Telecommunication structures have evolved from the highly visible four-legged and three-legged telecommunication towers, to monopoles and rapid poles that today, seamlessly blend into their surroundings. At edotco, we serve to meet that growing, modern-day demand for tower infrastructure and expertise. With a comprehensive selection of custom engineered towers featuring durable aesthetic designs, we offer you complete and highly optimised solutions. We are constantly striving to fuel communication innovation with unrivalled connectivity, flexibility and environmentally conscious solutions for tomorrow's communication.

enabling connectivity



Ground Based Structures

3 Legged Tubular Tower

Feature	• Lattice configuration • 3 legged structure • Leg and bracing consist of pipe (CHS) sections • Macro coverage requirements
Space Size	7m x 7m
Height Range	30m – 50m
Number of Tenants	3 tenants
Site Location	Sekinchan, Selangor, Malaysia

4 Legged Angular Tower

Feature	• Lattice configuration • 4 legged structure • Leg and bracing consist of angular section • Suitable for Hub or collector sites - higher capacity requirements • Macro coverage requirements
Space Size	10m x 10m
Height Range	50m – 100m
Number of Tenants	5 tenants
Site Location	Jenderam, Selangor, Malaysia

* Hub / Collector site – Site that serves as a transmission link aggregator

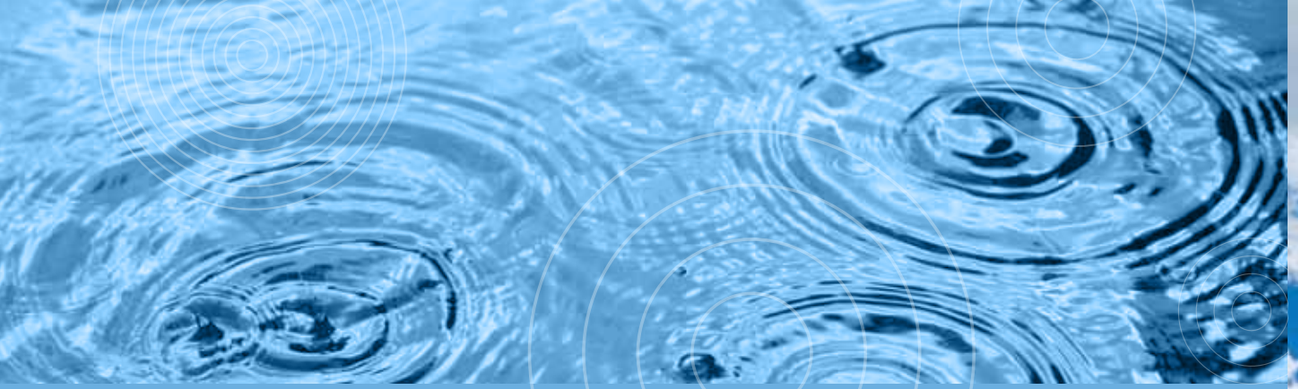
Monopole

Feature	• Hollow tubular or polygonal tubes with decreasing diameters • Flange joint or slip in joint assembly • Slim design • High load capacity • Coverage in urban areas
Space Size	6m x 6m
Height Range	20m – 45m
Number of Tenants	3 to 4 tenants
Site Location	Bengkel MARA Keramat, Kuala Lumpur, Malaysia

WIDE COVERAGE

edotco's tower sharing concept suits the growing needs of our customers by providing quick market coverage with optimal network facilities.

Sekinchan, Malaysia



Rooftop Structures

Rooftop Tower

Feature	• Lattice configuration • 4 legged structures • Leg and bracing consist of pipe (CHS) or angular section • The base width is of minimum dimension since the structure is roof mounted • The base of the tower is mounted on concrete or steel frame (consists of I-beams or inverted I-beams) with the frame fixed on the rooftop existing concrete columns/ pedestal • Macro coverage requirements
Height Range	12m – 20m
Number of Tenants	3 tenants
Site Location	Kafrul, Dhaka, Bangladesh

Rooftop Pole / Unipole

Feature	• Pipes in circular or multisided configuration with minimum thickness of 4mm • Flange joint or slip in joint assembly • Slim design • Single roof mounted poles fixed with steel dowels drilled into the roof • Coverage in urban areas
Height Range	6m – 12m
Number of Tenants	2 tenants
Site Location	Gombak Setia, Kuala Lumpur, Malaysia

Rooftop Mast / Minimast

Feature	• Lattice configuration • 3 legged or 4 legged structures • Leg and bracing consist of pipe (CHS) or angular section • The base width is of minimum dimension since the structure is roof mounted • The base of the tower is mounted on concrete or steel frame (consists of I-beams or inverted I-beams) and the frame fixed with the roof existing concrete columns/ pedestal
Height Range	6m – 15m
Number of Tenants	2 tenants
Site Location	Taman Klang Utama, Malaysia

COMPREHENSIVE SOLUTIONS

A diverse array of towers, with locations and heights to fit all coverage needs.

Angk Snuol District, Cambodia

Special Structures

Aesthetic Monopole

Feature	• Hollow tubular or polygonal tubes with decreasing diameters • Flange joint or slip in joint assembly • Slim design • Concealed as a tree • Reduced visual impact to the environment • Coverage in urban areas
Space Size	6m x 6m
Height Range	20m – 45m
Number of Tenants	3 tenants
Site Location	Cyberjaya, Selangor, Malaysia

Lamp Pole

Feature	• Hollow tubular or polygonal tubes with decreasing diameters • Flange joint or slip in joint assembly • Slim design • Concealed as light poles • Compact, light-weight structure with high strength and small wind resistance • Reduced visual impact to the environment • Coverage at street level
Space Size	6m x 6m
Height Range	16m – 30m
Number of Tenants	3 tenants
Site Location	Jalan Parlimen, Kuala Lumpur, Malaysia

Rapid Assembly Pole (Rapole)

Feature	• Hollow tubular or polygonal tubes with decreasing diameters • Flange joint or slip in joint assembly • Slim design • Compact, light-weight structure with high strength and small wind resistance • Mobile structure with rapid deployment • Relocatable once permanent structure is ready • Foundation plates (I-beams) can be moved with structure • Coverage in urban areas
Space Size	6m x 6m
Height Range	15m – 30m
Number of Tenants	3 tenants
Site Location	Surau Al-Ikhwan, Puncak Perdana, Kuala Lumpur, Malaysia

INNOVATIVE

Creative solutions optimised for ease of installation and minimum interference with existing mounts and lines.

Basedth, Cambodia

Mobility Solutions

edotco Mobility Solution

Feature	• Coverage during natural disaster / special events • Comes with 15m Telescopic mast • Telco to install nodeB and RRU only – Plug and Play • Transported to site via 4W Drive
Space Size	One carpark space
Number of Tenants	3 tenants
Site Location	Cyberjaya, Selangor, Malaysia

GEOGRAPHICALLY SOUND

edotco towers are strategically located in high density geographies with capacity for co-location with minimal incremental capex.

Colombo, Sri Lanka

Camouflage Solutions

Camouflage using FRP Material

Feature	• Telco equipment concealed with Fibre Reinforced Panels (FRP) • Camouflage design can be customised to blend with the environment • Appealing to local community • Coverage requirement at public areas / street level • Attractive branding option
Number of Tenants	2 to 3 tenants
Site Location	Boat Club, Dhaka, Bangladesh

* FRP material is a composite material that allows for penetration of RF signals

Pylon Solutions

Feature	• Telco equipment concealed with Fibre Reinforced Panels (FRP) • Attractive branding option via partnership with petrol stations, shopping malls, etc. • Appealing to local community • Coverage requirement at public areas / street level
Number of Tenants	2 - 3 tenants
Site Location	SHELL Intan Baiduri, Kepong, Malaysia

Camouflage using Common Antenna System (CAS)

Feature	• Usage of Common Antenna System (CAS) reduces the clutter of individual antennas that are typically deployed • Can also be deployed on monopole / Lamp Pole structures • Appealing to local community • Coverage requirement at public areas
Number of Tenants	2 to 3 tenants
Site Location	Desa Park City, Kuala Lumpur, Malaysia

edotco Camouflage Solutions on Existing Infra

Minaret
Site Location:
Masjid Jamiul Ehsan,
Kuala Lumpur, Malaysia

Road Signage
Site Location:
Bukit Tunku, Kuala Lumpur,
Malaysia

* Leveraging on infra for enhanced coverage and capacity to blend in with surroundings

COMPLETE & HIGHLY OPTIMISED SOLUTIONS

Providing tower structure solutions that include traditional structures and custom made towers to meet customer’s requirements.

Magway, Myanmar

Alternative Materials

Carbon Fibre Structure

Feature	• Round lattice matrix of carbon fiber strands layered in a geometric pattern • The matrix is then covered with a flat sheet of carbon fiber to form a pole section • Slip in joint assembly • Compact, light-weight structure with high strength • Ideal to be installed as rooftop poles given its light weight (70% lighter than steel) • Aesthetically appealing • Coverage at urban area
Space Size	6m x 6m
Height Range	15m - 24m
Number of Tenants	3 tenants
Site Location	Technical Morh, Dhaka, Bangladesh

TOWER FLEXIBILITY

Our towers are designed and custom engineered to blend seamlessly with the landscape and surrounding environment.

Bamboo Structure

Feature	• 4 legged bamboo truss pole • Lattice configuration • Manufactured from locally available bamboo raw material with steel joint bracings • Ideal to be installed at rooftop sites given its light weight • Coverage at urban areas • Aesthetically appealing
Height Range	6m – 9m
Number of Tenants	2 tenants
Site Location	Uttara, Dhaka, Bangladesh.

Nijhum Dweep, Bangladesh

Adding More Tenants To A Structure

Additional Platform
Site Location:
ERL Salak Tinggi,
Malaysia

Additional Rings
Site Location:
Surau Al-Iman,
Dengkil, Malaysia

Extended Structure
Site Location:
Taman Bunga Raya,
Setapak, Malaysia

Committed to innovating ways that make a positive, sustainable impact on our communities, at edotco we are renowned for providing expert engineering and flexible designs which serve as the backbone for modern wireless communication.

Kandal, Cambodia

Overview of edotco Structure Specifications

- The structures are designed in accordance to BS 5950, BS 6399, BS 8110, BS 8100 or TIA-222-G specifications
- Galvanizing is accordance with ASTM and BS codes with average coating thickness for steel members shall not be less than 85 micron (610 g/m2)
- The structures are fitted with lightning rods at the top long enough to give a 45° cone of protection over all antenna
- Aircraft Obstruction Lightning is accordance with ICAO (International Civil Aviation Organization's)
- Painting is accordance with ICAO (International Civil Aviation Organization's) regulations
- Structures modeling and analysis are done using MS Tower and/or Staad Pro software

DISCLAIMER
Certain tower designs may only be readily available in some countries, please contact edotco for more details

www.edotcogroup.com