

Product Data Sheet

TCBM Range

M2M & ISM Band

Super Slim Metering Antenna

- Mesh Network
- Omni Directional
- ROHS Compliant
- UFL Connector
- Ultra Compact
- Bluetooth
- Dual Band GSM
- SCADA
- UMTS UMTS
- WiMAX



TCBM

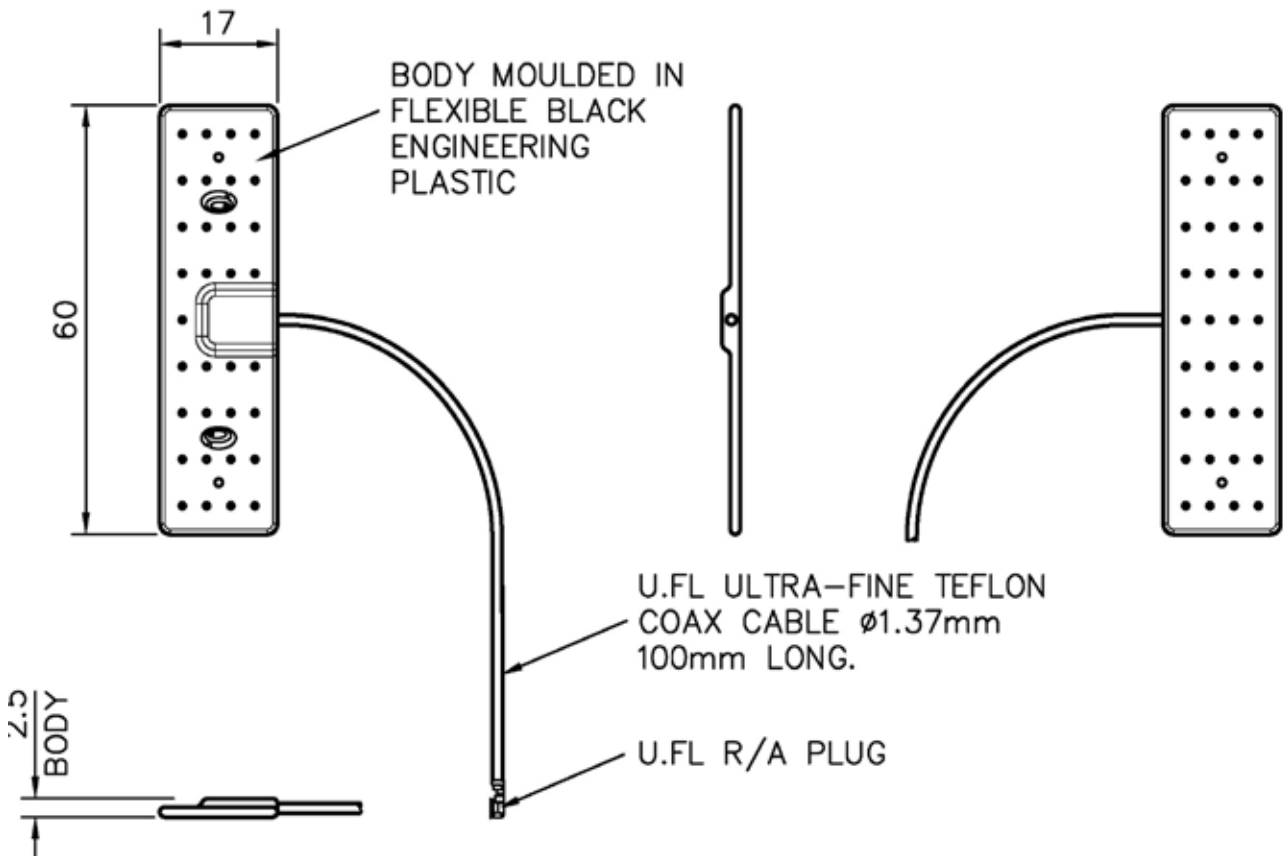
- Ultra slim design
- Plug and play U.FL connector
- Suitable for metering and utilities devices

Designed to offer signal improvements when space is at a premium, the Panorama TCBM range fits in with your device.

These antennas are highly flexible and can be squeezed into the tightest of spaces without compromising performance.

These durable overmoulded antennas are even suitable for deployment in special locations such as utilities meter and handheld devices.

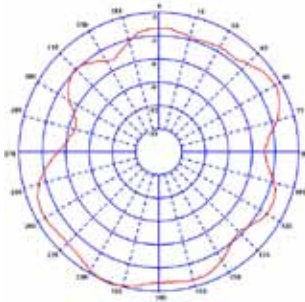
Technical Drawing



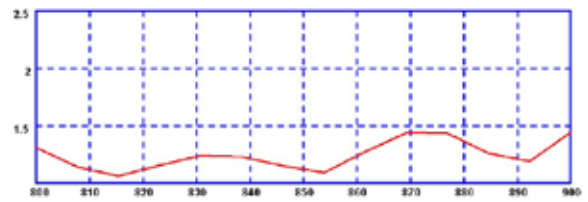
M2M & ISM Band

Super Slim Metering Antenna

H-Plane (868MHz)



Typical VSWR*



* The VSWR of this antenna will vary depending on the mounting material

Part No.				
	TCMB-868-01UFL	TCMB-DE-01UFL	TCMB-EP3G-01UFL	TCMB-23-01UFL
Electrical Data				
Frequency Range (MHz)	840-890	805-960 & 1710-1880	1710-1880 & 1900-2170	2200-2400
Operational Band	ISM868	GSM900 & GSM1800	GSM1800 & 3G UMTS	2.3GHz WiMax
VSWR	< 2.0:1	< 2.0:1	< 2.0:1	< 2.0:1
Gain: Isotropic	2dBi	2dBi	2dBi	2dBi
Compared to ¼ wave	0dB	0dB	0dB	0dB
Pattern	Omni-directional	Omni-directional	Omni-directional	Omni-directional
Polarisation	Vertical	Vertical	Vertical	Vertical
Impedance	50Ω	50Ω	50Ω	50Ω
Max Input Power (W)	10	10	10	10
Mechanical Data				
Dimensions (mm)	Height	60	60	60
	Width	17	17	17
	Thickness	2.5	2.5	2.5
Operating Temp (°C)	-40° / +80°C	-40° / +80°C	-40° / +80°C	-40° / +80°C
Material	Engineering Plastic	Engineering Plastic	Engineering Plastic	Engineering Plastic
Colour	Black	Black	Black	Black
Cable Data				
Type	Ultra-fine Teflon Coax	Ultra-fine Teflon Coax	Ultra-fine Teflon Coax	Ultra-fine Teflon Coax
Thickness (mm)	1.37	1.37	1.37	1.37
Length (m)	0.1	0.1	0.1	0.1
Termination	U.FL Plug	U.FL Plug	U.FL Plug	U.FL Plug

Panorama Antennas Ltd
Frogmore, London, SW18 1HF, United Kingdom

T: +44 (0)20 8877 4444
F: +44 (0)20 8877 4477

E: sales@panorama-antennas.com
www.panorama-antennas.com

PANORAMA  ANTENNAS