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The **EAD** Pocket Guide
innovative multiband antenna solutions



Unit 19, Hillcrest Way
Buckingham Industrial Park
Buckingham
MK18 1HJ. UK

Tel: +44 (0)1280 825537
Fax: +44 (0)1280 817179
Email: sales@ead-ltd.com

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ISM Band Antennas



EAD is an innovative and creative company specialised in the design and supply of multiband antenna solutions for telemetry and telematics applications. Our experience covers a wide range of antenna products from miniature handset antennas to wireless access point antennas and a variety of solutions in between.

We offer a range of standard products in the frequency bands that follow to reduce the time and cost of designing in custom antennas into wireless products and devices. EAD works with a network of distributors who offer products and support to our customers both in the UK and abroad.

This Product Guide is intended as a short introduction to the antenna solutions that EAD offers. For further information please visit our website, contact us or one of our distributors.

The EAD team

MH433 - 433 MHz Helical



Frequency	433 MHz
VSWR	<2:1
Bandwidth	8% @ centre frequency
Dimensions	75x14.5mm
Connectivity	SMA-Male (others on request)

MW433 - 433 MHz Whip



Frequency	433 MHz
VSWR	<2:1
Bandwidth	10% @ centre frequency
Dimensions	171x14.5mm
Connectivity	SMA-Male (others on request)

MW433-FLY - 433 MHz Whip



Frequency	433 MHz
VSWR	<2:1
Bandwidth	10% @ centre frequency
Dimensions	181x14.5mm
Connectivity	Flying lead no connector

Morova - 868 MHz Internal



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	81x21mm
Connectivity	SMA-Male (others on request)

SW868 - 868 MHz Swivel



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	117x11mm
Connectivity	SMA-Male (others on request)

ISM Band Antennas

WR868 - 868 MHz Stubby



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	54x8mm
Connectivity	SMA-Male

WS868 -868 MHz Stubby



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	54 x 8mm
Connectivity	SMA-Male

MW868 -868 MHz Whip



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Bandwidth	10% @ centre frequency
Dimensions	84 x 14.5mm
Connectivity	SMA-Male (others on request)

W868 - FL:Y - 868 Mhz Whip



Frequency	868MHz / 915 MHz
VSWR	<2:1
Bandwidth	10% @ centre frequency
Dimensions	92 x 14.5 mm
Connectivity	Flying lead no connector

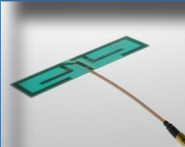
CW868 - 868 MHz Whip



Frequency	868 MHz / 915 MHz
VSWR	<2:1
Gain	10% @ centre frequency
Dimensions	105x15mm
Connectivity	BNC -Male

GSM/Cellular/3G Antennas

Neris - Tri Band Internal



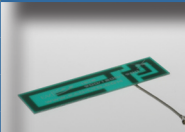
Frequency	900/1800/1900 MHz
VSWR	2:1
Gain	1dBi
Dimensions	81x21mm
Connectivity	Various incl: MMCX UFL GSC

MiniGSM - Dual Band Internal



Frequency	900/1800MHz
VSWR	<2:1
Gain	0 dBi
Dimensions	43x6mm
Connectivity	Various incl: MMCX UFL GSC

Isis - Tri Band Internal



Frequency	900/1800/1900 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	60x17mm
Connectivity	Various incl: MMCX UFL GSC

SQad - Quad Band Internal



Frequency	850/900/1800/1900 MHz
VSWR	<1.5:1
Gain	1.5-2dBi
Dimensions	110x20mm
Connectivity	Various incl: MMCX UFL GSC

Targan - Tri Band Stubby



Frequency	900/1800/1900 MHz or (850/1800/1900)
VSWR	<2:1
Gain	1dBi
Dimensions	54x8mm
Connectivity	SMA-Male RA or straight

GSM/Cellular/ 3G Antennas

C-Top Dual Band External



Frequency	900/1800 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	83 x16mm
Connectivity	SMA-Female

WB60 - Dual Band Magnetic



Frequency	900/1800 MHz
VSWR	<2:1
Gain	1dBi
Dimensions	68x14mm
Connectivity	SMA-Male (others on request)

WB70 - Dual Band Roof



Frequency	900/1800MHz (850/1900MHz)
VSWR	<2:1
Gain	1dBi
Dimensions	76x20mm
Connectivity	SMA-Male (others on request)

S-Blade - Waterproof External



Frequency	900/1800/1900/2100 MHz
VSWR	<2:1
Gain	1.5-2 dBi
Dimensions	115x24mm
Connectivity	SMA-Male

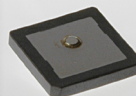
TBR2100 - Tri Band Swivel Dipole



Frequency	900/1800/2100 MHz
VSWR	<2:1
Gain	2dBi
Dimensions	140x13mm
Connectivity	SMA-Male

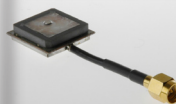
GPS Antennas

GPS3100 - GPS Internal Passive



Frequency	1575.42 MHz
Element Gain	0 dBic
Bandwidth	5 MHz
Dimensions	20x20mm
Connectivity	Pin

GPS4100 - GPS Internal Active



Frequency	1575.42 MHz
LNA Gain	21 dB
Power Consumption	20 mA
Dimensions	23x23x7mm
Connectivity	Various incl. MMCX, UFL, GSC

GPS5100 - GPS Internal Active



Frequency	1575.42 MHz
LNA Gain	26 dB
Power Consumption	15 mA
Dimensions	27x30x7mm
Connectivity	Various incl. MMCX, UFL, GSC

WB85 - Tri Band Magnetic Mount



Frequency	900/1800 MHz + GPS
VSWR	<2:1
GSM Gain	1dBi
Dimensions	69 x 14mm
Connectivity	SMA-Male (others on request)

WB90 - GPS Roof Mount



Frequency	1575.42 MHz
LNA Gain	27 dB
Power Consumption	25 mA
Dimensions	76x20mm
Connectivity	Various incl. MMCX, UFL, GSC

2.4 GHz Antennas

Acara - Dual Band Internal

	Frequency	2.5/5.2 GHz
	VSWR	<2:1
	Gain	2.2 dBi
	Dimensions	66x16mm
	Connectivity	Various incl. MMCX, UFL, GSC

BT - Stubby - 2.4 GHz Stubby

	Frequency	2.4 GHz
	VSWR	<2:1
	Gain	0dBi
	Dimensions	32x8mm
	Connectivity	SMA-Male Straight (RP-SMA)

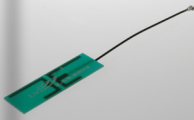
BT Stubby - 2.4 GHz Stubby

	Frequency	2.4 GHz
	VSWR	<2:1
	Gain	0dBi
	Dimensions	34.5 x 8mm
	Connectivity	SMA-Male

BKR2400 - 2.4 GHz Swivel Dipole

	Frequency	2.4 GHz
	VSWR	<2:1
	Gain	2dBi
	Dimensions	138x13mm
	Connectivity	SMA-Male or RP-SMA

Rhea - Dual Band Internal

	Frequency	2.4/5.8 GHz
	VSWR	<2:1
	Gain	2dBi
	Dimensions	50 x 16mm
	Connectivity	Various incl. MMCX, UFL, GSC

2.4 GHz Antennas

BUF2400 - External Captive Swivel

	Frequency	900/1800 MHz (850/1900MHz)
	VSWR	<2:1
	Gain	2dBi
	Dimensions	119x14
	Connectivity	Flying lead and U FL

BT-Blade - Waterproof Blade

	Frequency	2.4/502 GHz
	VSWR	<2:1
	Gain	2dBi
	Dimensions	75x19mm
	Connectivity	SMA-Male (others on request)

C-Blade - Waterproof Blade Mount

	Frequency	2.4/5.2 GHz
	VSWR	<2:1
	Gain	2dBi
	Dimensions	92x19mm
	Connectivity	SMA-Male (others on request)

Z-Top - Low Profile External

	Frequency	2.4 GHz
	VSWR	<2:1
	Gain	1dBi
	Dimensions	83 x 16mm
	Connectivity	SMA-Female

HGH - 2400 - High Gain External

	Frequency	2.4 GHz
	VSWR	<1.5:1
	Gain	5dBi
	Dimensions	225 x 22 mm
	Connectivity	N-Male

Misc Antennas

VHF Helical Antennas

	Frequency	132-174 MHz
	VSWR	<2:1
	Bandwidth	5% @ centre frequency
	Dimensions	Frequency Dependent
	Connectivity	BNC, TNC (others on request)

UHF Helical Antennas

	Frequency	420-512 MHz
	VSWR	<2:1
	Bandwidth	8% @ centre frequency
	Dimensions	Frequency Dependent
	Connectivity	BNC, TNC (others on request)

UHF Whip Antennas

	Frequency	420-512 MHz
	VSWR	<2:1
	Bandwidth	10% @ centre frequency
	Dimensions	Frequency Dependent
	Connectivity	SMA-Male, BNC, TNC

GSM Stubby - External Stubby

	Frequency	900 MHz
	VSWR	<2:1
	Gain	0dBi
	Dimensions	32x8mm
	Connectivity	SMA-Male

UB70- ISM Band Utilities

	Frequency	868 MHz (900/1800 MHz)
	VSWR	<2:1
	Gain	1dBi
	Dimensions	117x45 mm
	Connectivity	SMA-Male (others on request)

Specifications subject to change without notice.

Adapter Cables

M2MAC-MR-XX-SFP

	Connector 1	MMCX RA
	Connector 2	SMA Female Bulkhead
	Cable	RG - 174
	Lengths	100/150/200mm
	Applications	GSM, Cellular, WLAN Frequencies

M2MAC-MR-XX-FMB

	Connector 1	MMCX RA
	Connector 2	FME - Male Bulkhead
	Cable	RG - 174
	Lengths	100/150/200mm
	Applications	GSM, Cellular, WLAN Frequencies

M2MAC-UF-XX-SFP

	Connector 1	U.FL
	Connector 2	SMA Female Bulkhead
	Cable	1.13 Micro Coax
	Lengths	100/150/200mm
	Applications	GSM, Cellular, WLAN Frequencies

M2MAC-UF-XX-FMB

	Connector 1	U.FL
	Connector 2	FME Male Bulkhead
	Cable	1.13 Micro Coax
	Lengths	100/150/200mm
	Applications	GSM, Cellular, WLAN Frequencies

M2MAC-MCF-xx-SFP

	Connector 1	MCF (GSC Compatible)
	Connector 2	SMA Female Bulkhead
	Cable	1.13 Micro Coax
	Lengths	100/200mm
	Applications	GSM, Cellular, WLAN Frequencies

Specifications subject to change without notice.