

A white plastic carrying case with a handle and a logo. The logo consists of the text 'ad ▶ co ▶ com' in a sans-serif font, with red right-pointing triangles between the words. Below the logo is the text 'Advanced Communication Components' in a smaller, lighter font. The case has a handle on top and two black circular indentations on the upper corners.

ad ▶ co ▶ com

Advanced Communication Components

Get UMTS coverage for a ...

- shop
- warehouse
- press conference

or special event

with AdCoCom components.

Simple, fast, efficient!

3G / UMTS Kit

In-Building Coverage System 1920 - 2170 MHz

The UMTS FDD **Low Power Coverage Extender** (LPCE) is designed to bridge extended lengths of coaxial cables in an In-Building Coverage system. It increases RF power in the downlink and preamplifies uplink signals from the mobiles.

It can be deployed as a Bi-Directional Amplifier (BDA) in a single-band UMTS implementation.

Main features:

- Line extension in single-band UMTS networks
- Full UTRAN FDD band operation
- Fixed gain mode for stand-alone operation
- Manual gain adjustment
- Automatic Gain Control
- Remote or local power supply
- DC-free antenna output port
- LED alarm and status indication

To easily calculate cable lengths for the UMTS Kit, download the free configurator tool from www.adcocom.com (Products/downloads).

UMTS Kit Mini: A/N 24012829

- Low Power Coverage Extender
- Low Power Coverage Extender Mini
- Outdoor/indoor antennas for UMTS
- Power supply
- Installation kits and instructions

UMTS Kit: A/N 24012824

- 2 Low Power Coverage Extenders
- Outdoor/indoor antennas for UMTS
- Power supply
- Installation kits and instructions

Configured cable set: A/N 24013035

- 3 RF cables (SCF 14-50 JFN)
10, 8 and 2m

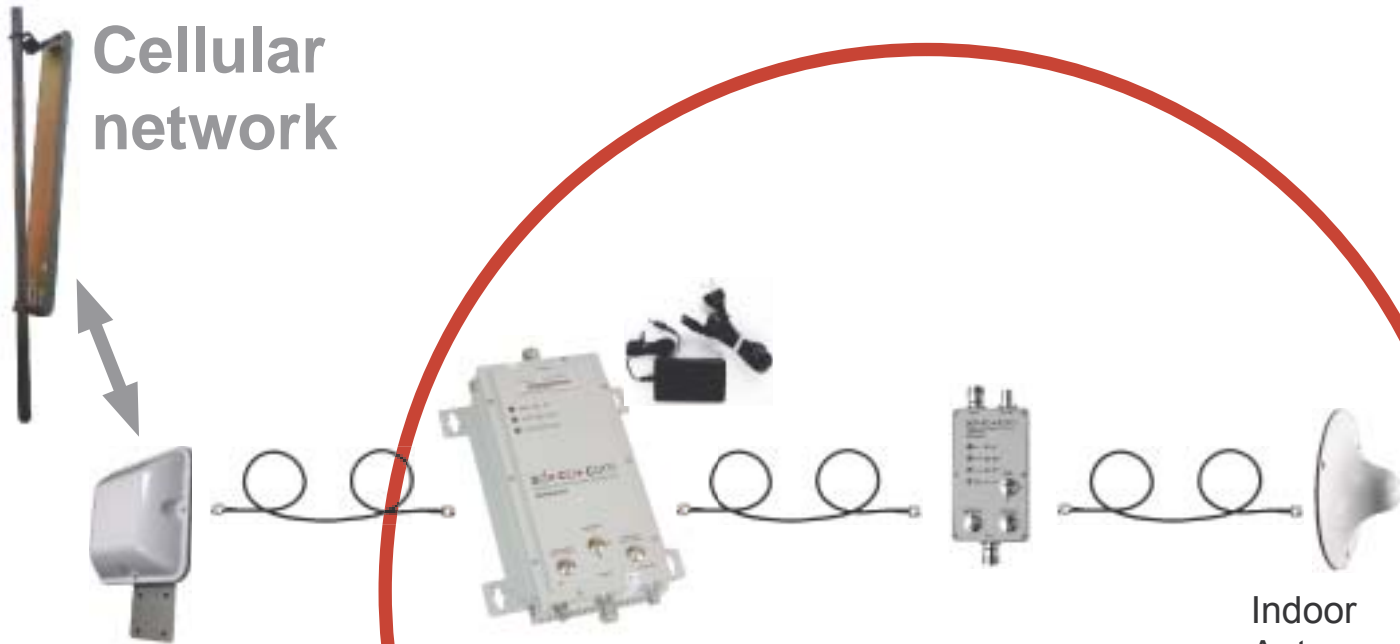
Unconfigured cable: A/N 24012722

- RF cable SCF 14-50 JFN
(20m recommended for one Kit)

RF connectors: A/N 24012723

- NM-SCF 14-001 (6 required for one Kit)

Cellular network



Outdoor Antenna

AdCoCom IridiumLine Extenders

Indoor Antenna

In-Building Coverage

Mobiles



3G / UMTS Kit

In-Building Coverage System 1920 - 2170 MHz



Low Power Coverage Extender

>17 Downlink
output power (dBm)

- ▶ small size
- ▶ low power consumption



Low Power Coverage Extender Mini

10 Downlink
output power (dBm)

- ▶ very small size
- ▶ very low power consumption

Hard-top case

Size	cm	56 x 47 x 17
Product protection		Foam material
Cable ties and belts		Can be re-used

RF cable 1/4" with N female connectors (optional)

RFS CELLFLEX SCF14-15JFN
Super-flexible cable, flame retardant, halogen free jacket

Cable type		Foam-dielectric
Size	Inch	1/4"
Return loss (VSWR performance)		Standard
Impedance	Ohm	50
Maximum frequency	GHz	20,4
Velocity	%	82
Peak power rating	kW	5.5
Inner/outer conductor resistance	Ohm/1000m	10.40 / 6.60
RF peak voltage	V	740
Jacket spark	V RMS	5000
Capacitance	pF/m	82.0
Inductance	H/m	0.207
Inner/outer conductor material		Corrugated copper / copper-clad aluminum wire
Diameter over jacket nominal	mm	7,8
Minimum bending radius	mm	25

AdCoCom IridiumLine Low Power Coverage Extender (LPCE) with installation kit

A/N 24 012 253		
Frequency range	MHz	Uplink 1920...1980 Downlink 2110...2170
Nominal gain	dB	35±2
ALC range	dB	10
Manual gain reduction	dB	0...15 in 1 dB steps
Gain ripple over freq.	dB	< ± 2.0
Gain ripple over temp.	dB	< ± 2.0
Output power (ETSI)	dBm	> 17
Max. input power	dBm	13
Noise figure @ max. gain	dB	< 8
Return loss	dB	> 10
Voltage supply	V DC	10...30
Power consumption	W	< 17
Impedance	Ω	50
Temperature	°C	0 ... +55
RF connectors		N female
DC connector		BNC female
Dimensions	cm	(WxHxD) 22 x 5 x 13.8
Weight	kg	2.1
Protection class		IP 54

Indoor Antenna with installation kit

Omni-Directional Indoor Antenna I-ATO1-800/2500

Impedance	Ohm	50
Working band	MHz	Band 1: 806 - 960 Band 2: 1710 - 2500
Gain	dBi	Band 1: 2.0 Band 2: 4.0 Nominal, width 1 dB typical variation
Power handling	W	50
VSWR		Band 1: ≤ 1.8:1 Band 2: ≤ 1.6:1
Polarization		Vertical
E-plane beam width	Degree	180
H-plane beam width	Degree	360
Connector		N female
Cover material		Plastic
Color		White
Radiation module material		Brass
Weight	kg	0.5
Dimensions	cm	20.0 x 7.6 diameter x height

AdCoCom IridiumLine Low Power Coverage Extender (LPCE) Mini

A/N 24 012 700		
Frequency range	MHz	Uplink 1920...1980 Downlink 2110...2170
Nominal gain	dB	35±2
ALC range	dB	10
Manual gain reduction	dB	0...15 in 1 dB steps
Gain ripple over freq.	dB	< ± 2.0
Gain ripple over temp.	dB	< ± 2.0
Output power (ETSI)	dBm	9 ± 1.0
Max. input power	dBm	13
Noise figure @ max. gain	dB	Uplink < 8/ Downlink < 9
Return loss	dB	> 10
Voltage supply	V DC	10...30
Power consumption	W	< 7
Impedance	Ω	50
Temperature	°C	0 ... +50
RF connectors		N female
DC connector		BNC female
Dimensions	mm	(WxHxD) 115 x 65 x 29.5
Weight	kg	0.28
Protection class		IP 42

LPCE mounting elements

Compact Power Supply

A/N 24 013 061

Voltage	V	In: 90...264 AC Out: 21...27 DC
Power consumption	W	0...50
DC output connector	mm	Barrel Jack 2.5 / 5.5
Dimensions	cm	(WxDxH) 14.6x7.6x4.3
Temperature	°C	0 ... +70
Weight	kg	0.450

Outdoor Antenna with installation kit

Multi-Band Outdoor Antenna SPB - 1.7 / 2.5 - 11

Impedance	Ohm	50
Working band	MHz	1700 - 2500
Gain	dBi	10.0
Power handling	W	20
VSWR		1700 - 2170: ≤ 1.5:1 2170 - 2500: ≤ 2.0:1
Polarization		Linear vertical
E-plane beam width	Degree	53
H-plane beam width	Degree	54
Downtilt	Degree	0
Front to back ratio	dB	≥ 20
Feed system position		Direct DC ground / center
Connector		N female
Cover material		PCB, aluminium
Color		White
Radiation module material		Brass
Wind load / resistance	N	60 at 150 / 180 km/h
Wind surface	m ²	0.03
Weight	Kg	0.65
Operating temperature	°C	-20 to +80
Dimensions	cm	17.0 x 17.0 x 5.0 without bracket





AdCoCom stands for
design, manufacturing and sales of
Advanced Communication Components.



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