



-  **Kit attivi e passivi GSM 900MHz UMTS 2,1GHz**
-  900MHz GSM 2,1GHz UMTS active and passive kits
-  Kits actifs et passifs GSM 900MHz UMTS 2,1GHz
-  Kit activo y pasivo GSM 900MHz UMTS 2,1GHz

CONFORMI 2014/53/UE/RED



Telefonia GSM 900MHz UMTS 2,1GHz

I kit telefonici prodotti dalla 3B Elettronica consentono di estendere la copertura dei telefoni cellulari GSM - PCM-UMTS all'interno di uffici, ristoranti, seminterrati e costruzioni chiuse in genere, dove le strutture impediscono in tutto o in parte le comunicazioni cellulari.

Tutti i kit sono regolarmente omologati 2014/53/UE/RED e sono conformi alle normativa prevista dalla legge.

L'installazione deve essere fatta da personale altamente qualificato, in modo da non interferire in alcun modo con altre installazioni preesistenti, seguendo scrupolosamente le istruzioni di montaggio come indicato all'interno di ciascun kit. La 3B Elettronica declina ogni responsabilità circa un'errata installazione, eseguita da personale non qualificato privo della necessaria strumentazione e da uno scorretto posizionamento o orientamento delle antenne, possibile causa di interferenze verso terzi.

Téléphonie GSM 900MHz et UMTS 2,1GHz

Les kits produit par 3B Elettronica permet de porter les signals du téléphones mobile GSM - PCM-UMTS à l'interieur des bureaux, restaurants, sous-soles et constructions fermé ou les structures interdit in tout o in part les communications.

Tout les kits sont régulièrement homologué 2014/53/UE/RED et respecte tout les normes de conformité de la loi.

L'installation doit etre effectué du personnel hautement qualifié, pour pas interférer avec autre installations préexistants et il est nécessaire de suivre rigoureusement les instructions comme indiqué dans l'interieur de chaque kit.

Le 3B Elettronica décline toute responsabilité pour une mauvaise installation, exécute par personnel pas qualifié sans la nécessaire instrumentation, de une incorrect positionnement ou orientation des antennes que peut causé des interferences.



900MHz GSM 2,1GHz UMTS telephonical items

The kits produced by 3B Elettronica allows to reach the mobile phones signals GSM - PCM-UMTS inside office, restaurantes, basements and closed constructions where the structures don't allows in part or in all the mobile phones signals.

All the kits are in the conformity with the provisions of the 2014/53/UE/RED directives, and they respect all the conformity law .

The installation must be done by personal highly qualified, so to avoid all interferences with other installations already existents, and it's necessary to follow exactly the mounting istructions as indicated inside each kit.

3B Elettronica disclaims all responsibility for a wrong instalation, execute from not qualified personal, without necessary instruments, from a wrong positions or orientation of the antennas that can cause interferences.



Telefonia GSM 900MHz UMTS 2,1GHz

Los kits telefónicos fabricados por 3B Elettronica, permite trasladar las senales de teléfonos móviles GSM - PCM-UMTS dentro de oficina, restaurantes, sótanos y construcciones cerradas donde las estructuran impiden todo o parte de la comunicaciòn.

Todos los kits estàn homologados por la 2014/53/UE/RED y respetan todas las normativas legislativas vigentes.

La instalaciòn debe ser realizada por personal cualificado, para no interferir con instalaciones ya existentes y es necesario seguir exactamente las instrucciones de montaje, incluidas dentro de cada kit.

3B Elettronica declina toda responsabilidad por mala instalaciòn, realizado por personal no cualificado sin instrumentaciòn cenesaria, de un posicionamento erròneo u orientaciòn de antenas que pueden causar interferences.



TELEFONIA
KIT MONOCAVO SINGLE BAND 20dBm

3B elettronica

- KIT Single band 20dBm**
- 20dBm singleband KIT
- KIT Single band 20dBm
- KIT Single band 20dBm



<p>8592L-KEGSM20</p> <p>1 8594-AFTIWGSM20</p> <p>1 8770N-ADIRLGDU</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>	<p>8592O-KEGSM20</p> <p>1 8594-AFTIWGSM20</p> <p>1 8980-AGDU4</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>	<p>8596L-KUMTS20</p> <p>1 8595-AFTIWUMTS20</p> <p>1 8770N-ADIRLGDU</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>	<p>8596O-KUMTS20</p> <p>1 8595-AFTIWUMTS20</p> <p>1 8980-AGDU4</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>
<p>8618L-KDCS20</p> <p>1 8583-AFTIWDCS20</p> <p>1 8770N-ADIRLGDU</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>	<p>8618O-KDCS20</p> <p>1 8583-AFTIWDCS20</p> <p>1 8980-AGDU4</p> <p>2 5998-CMNM</p> <p>10mt 6297-LMR240LSZH</p> <p>1 8874-ANTOEGDUL</p>		

Parameters		Uplink	Downlink
KIT Frequency Range	8592L-KEGSM20/8592O-KEGSM20	880 ~ 915MHz	925 ~ 960MHz
	8596L-KUMTS20/8596O-KUMTS20	1920 ~ 1980MHz	2110 ~ 2170MHz
	8618L-KDCS20/8618O-KDCS20	1710 ~ 1785MHz	1805 ~ 1880MHz
Operation Bandwidth (-3dB)		Wide Band	
Amplifier Maximum Gain	8594-AFTIWGSM20	≥65dB	≥70dB
	8595-AFTIWUMTS20	≥65dB	≥70dB
	8583-AFTIWDCS20	≥65dB	≥70dB
Amplifier Output Power	8594-AFTIWGSM20	≥15dBm	≥20dBm
	8595-AFTIWUMTS20	≥15dBm	≥20dBm
	8583-AFTIWDCS20	≥15dBm	≥20dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	AGC LED	GREEN @ Normal, Red @ ALC 10dB,	
ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Output signal strength		Shown output signal strength with number.	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		≤12W	
Power Supply		Input: AC 110~240V; Output: DC 6V/3A	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		128*170*65mm	
Weight		≤2.2KG	



TELEFONIA

KIT MONOCAVO DUAL BAND 20dBm

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- KIT Dual band 20dBm**
- 20dBm dual band KIT
- KIT Dual band 20dBm
- KIT Dual Band 20dBm



8622L-KEGD20		8622O-KEGD20		8623L-KEGU20		8623O-KEGU20	
1	8621-AFTGD20S	1	8621-AFTGD20S	1	8609-AFTGU20S	1	8609-AFTGU20S
1	8770N-ADIRLGDU	1	8980-AGDU4	1	8770N-ADIRLGDU	1	8980-AGDU4
2	5998-CMNM	2	5998-CMNM	2	5998-CMNM	2	5998-CMNM
10mt	6297-LMR240LSZH	10mt	6297-LMR240LSZH	10mt	6297-LMR240LSZH	10mt	6297-LMR240LSZH
1	8874-ANTOEGDUL	1	8874-ANTOEGDUL	1	8874-ANTOEGDUL	1	8874-ANTOEGDUL

Parameters		Uplink	Downlink
KIT Frequency Range	8622L-KEGD20/8622O-KEGD20 EGSM + DCS	880 ~ 915MHz + 1710 ~ 1785MHz	925 ~ 960MHz + 1805 ~ 1880MHz
	8623L-KEGU20/8623O-KEGU20 EGSM + WCDMA	880 ~ 915MHz + 1920 ~ 1980MHz	925 ~ 960MHz + 2110 ~ 2170MHz
Operation Bandwidth (-3dB)		Wide Band	
Amplifier Maximum Gain	8621-AFTGD20S	≥65dB	≥70dB
	8609-AFTGU20S	≥65dB	≥70dB
Amplifier Output Power	8621-AFTGD20S	≥15dBm	≥20dBm
	8609-AFTGU20S	≥15dBm	≥20dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	AGC LED	GREEN @ Normal, Red @ ALC 10dB,	
ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Output signal strength		Shown output signal strength with number.	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		≤12W	
Power Supply		Input: AC 110~240V; Output: DC 6V/3A	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		128*170*65mm	
Weight		≤2.2KG	



TELEFONIA
AMPLIFICATORI MONOCAVO SINGLE BAND
 20 ~ 30 dBm

3B elettronica

Amplificatori single band 20 ~ 30 dBm

Single band amplifier 20 ~ 30 dBm

Single band répéteurs 20 ~ 30 dBm

Single band repetidores 20 ~ 30 dBm

8583-AFT1WDCS20
 8594-AFT1WGSM20
 8595-AFT1WUMTS20



8607-AFT10WEGSM30
 8616-AFT10WDCS30



Parameters		Uplink	Downlink
Frequency Range	8594-AFT1WGSM20	880 ~ 915MHz	925 ~ 960MHz
	8595-AFT1WUMTS20	1920 ~ 1980MHz	2110 ~ 2170MHz
	8583-AFT1WDCS20	1710 ~ 1785MHz	1805 ~ 1880MHz
	8607-AFT10WEGSM30	880 ~ 915MHz	925 ~ 960MHz
	8616-AFT10WDCS30	1710 ~ 1785MHz	1805 ~ 1880MHz
Operation Bandwidth (-3dB)		Wide Band	
Maximum Gain	8594-AFT1WGSM20	≥65dB	≥70dB
	8595-AFT1WUMTS20	≥65dB	≥70dB
	8583-AFT1WDCS20	≥65dB	≥70dB
	8607-AFT10WEGSM30	≥75dB	≥80dB
	8616-AFT10WDCS30	≥75dB	≥80dB
Output Power	8594-AFT1WGSM20	≥15dBm	≥20dBm
	8595-AFT1WUMTS20	≥15dBm	≥20dBm
	8583-AFT1WDCS20	≥15dBm	≥20dBm
	8607-AFT10WEGSM30	≥23dB	≥30dB
	8616-AFT10WDCS30	≥75dB	≥80dB
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	AGC LED	GREEN @ Normal, Red @ ALC 10dB,	
ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Output signal strength		Shown output signal strength with number.	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		≤12W	
Power Supply		Input: AC 110~240V; Output: DC 6V/3A	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		128*170*65mm / 228*170*65	
Weight		≤2.2KG / ≤4KG	



TELEFONIA
AMPLIFICATORI DUAL BAND
 20 ~ 27 dBm

3B elettronica

- Ripetitori DUALBAND**
- DUALBAND repeters
- DUALBAND répéteurs
- DUALBAND repetidores



Parameters		Uplink	Downlink
Frequency Range	LTE800 (Band 20)	832 ~ 9862MHz	791 ~ 821MHz
	GSM&EGSM (Band 8)	880 ~ 915MHz	925 ~ 960MHz
	DCS (Band 3)	1710 ~ 1785MHz	1805 ~ 1880MHz
	WCDMA (Band 1)	1920 ~ 1980MHz	2110 ~ 2170MHz
Operation Bandwidth (-3dB)		Wide Band	
Maximum Gain LTE800+EGSM	8625-AFTIWL800EG20	≥65dB	≥70dB
	8572-AFTIWL800EG27	≥75dB	≥80dB
Maximum Gain LTE800+DCS	8624-AFTLD20S	≥65dB	≥70dB
Maximum Gain EGSM+DCS	8621-AFTGD20S	≥65dB	≥70dB
	8571-AFT... 20	≥65dB	≥70dB
	8571-AFT... 23	≥70dB	≥75dB
	8571-AFT... 27	≥75dB	≥80dB
Maximum Gain EGSM+UMTS	8609-AFTGU20S	≥65dB	≥70dB
	8597-AFT... 20	≥65dB	≥70dB
	8597-AFT... 23	≥70dB	≥75dB
	8597-AFT... 27	≥75dB	≥80dB
Output Power LTE800+EGSM	8625-AFTIWL800EG20	≥15dBm	≥20dBm
	8572-AFTIWL800EG27	≥20dBm	≥27dBm
Output Power LTE800+DCS	8624-AFTLD20S	≥15dBm	≥20dBm
	8621-AFTGD20S	≥15dBm	≥20dBm
	8571-AFT... 20	≥15dBm	≥20dBm
	8571-AFT... 23	≥17dBm	≥23dBm
Output Power EGSM+UMTS	8571-AFT... 27	≥20dBm	≥27dBm
	8609-AFTGU20S	≥15dBm	≥20dBm
	8597-AFT... 20	≥15dBm	≥20dBm
	8597-AFT... 23	≥17dBm	≥23dBm
8597-AFT... 27	≥20dBm	≥27dBm	
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	AGC LED	GREEN @ Normal, Red @ ALC 10dB,	
ISO		When AGC control over 25dB range, the ISO will turn to RED, and repeater will shut off	
Smart Mode		Automatically adjust the gain in both links according to the specific environment.	
Output signal strength		Shown output signal strength with number.	
RF Connector/Impedance		N-Female/50Ω	
Power Consumption		≤12W	
Power Supply		Input: AC 110~240V; Output: DC 6V/3A (for 8624) Output: DC 9V/5A Output: DC 10V/6A (for 8597-AFT... 27)	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		128*170*65mm /228*170*65mm/310*170*65mm	
Weight		≤2.2KG /≤4KG/ ≤5KG	



TELEFONIA
AMPLIFICATORI TRIPLE BAND
 20 ~ 27 dBm

3B elettronica

- Ripetitori TRIPLE BAND**
- TRIPLE BAND repeaters
- TRIPLE BAND répéteurs
- TRIPLE BAND repetidores







Parameters		Uplink	Downlink
Frequency Range	LTE800 (Band 20)	832 ~ 9862MHz	791 ~ 821MHz
	GSM&EGSM (Band 8)	880 ~ 915MHz	925 ~ 960MHz
	DCS (Band 3)	1710 ~ 1785MHz	1805 ~ 1880MHz
	WCDMA (Band 1)	1920 ~ 1980MHz	2110 ~ 2170MHz
Operation Bandwidth (-3dB)		Wide Band	
Maximum gain EGSM+DCS+UMTS	8598-AFTIWEGDU05	≥20dB	≥0dB
	8598-AFTIWEGDU20	≥65dB	≥70dB
	8598-AFTIWEGDU23	≥70dB	≥75dB
	8598-AFTIWEGDU27	≥75dB	≥80dB
Maximum gain LTE800+DCS+UMTS	8639-AFTIWLDU20	≥65dB	≥70dB
	8639-AFTIWLDU23	≥70dB	≥75dB
	8639-AFTIWLDU27	≥75dB	≥80dB
Maximum gain LTE800+EGSM+DCS	8638-AFTIWLEGD27	≥75dB	≥80dB
Output power EGSM+DCS+UMTS	8598-AFTIWEGDU05	≥25dBm	≥30dBm
	8598-AFTEGDU20	≥15dBm	≥20dBm
	8598-AFTEGDU23	≥17dBm	≥23dBm
	8598-AFTIWEGDU27	≥20dBm	≥27dBm
Output power LTE800+DCS+UMTS	8639-AFTIWLDU20	≥15dBm	≥20dBm
	8639-AFTIWLDU23	≥17dBm	≥23dBm
	8639-AFTIWLDU27	≥20dBm	≥27dBm
Output power LTE800+EGSM+DCS	8638-AFTIWLEGD27	≥20dBm	≥27dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	Smart LED	Smart function ON/OFF	
AGC Alarm		Alarm RED when AGC control over 10dB	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		≤40W/≤25W(*)	
Power Supply		Input: AC 110~240V; Output: DC 10V/6A	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		310*170*65mm or (*)228*170*65mm	
Weight		5.5~9.5KG	



TELEFONIA
AMPLIFICATORI FIVE BAND
 20 ~ 27 dBm

3B elettronica

-  Ripetitori FIVE BAND
-  FIVE BAND repeters
-  FIVE BAND répéteurs
-  FIVE BAND repetidores





Parameters		Uplink	Downlink
Frequency Range (Europe, Asia, Africa)	LTE800 (Band 20)	832 ~ 862MHz	791 ~ 821MHz
	GSM&EGSM (Band 8)	880 ~ 915MHz	925 ~ 960MHz
	DCS (Band 3)	1710 ~ 1785MHz	1805 ~ 1880MHz
	WCDMA (Band 1)	1920 ~ 1980MHz	2110 ~ 2170MHz
	LTE2600 (Band 7)	2500~2570MHz	2620 ~ 2690MHz
Frequency Range (North America, South America)	LTE700 Upper (Band 12)	698 ~ 716MHz	728 ~ 746MHz
	LTE700 Lower (Band 13)	776 ~ 787MHz	746 ~ 757MHz
	CDMA (Band 5)	824 ~ 849MHz	869 ~ 894MHz
	PCS (Band 2)	1850 ~ 1910MHz	1930 ~ 1990MHz
	AWS (Band 4)	1710~1755MHz	2110 ~ 2155MHz
Operation Bandwidth (-3dB)		Wide Band	
Maximum gain	8641-AFT...20	≥65dB	≥70dB
	8641-AFT...23	≥70dB	≥75dB
Output power	8641-AFT...20	≥15dBm	≥20dBm
	8641-AFT...23	≥15dBm	≥23dBm
MGC (Manual Gain Control)		31dB range/1dB step	
AGC (Automatic Gain Control)		≥25dB	
Spurious Emission	9KHz~1GHz	≤ -36dBm	
	1GHz~12.75GHz	≤ -30dBm	
Noise Figure		≤ 6dB	
VSWR		≤2.0	
Group Delay		≤1μs	
LED Alarm	Power LED	DC ON/OFF	
	Smart LED	Smart function ON/OFF	
AGC Alarm		Alarm RED when AGC control over 10dB	
RF Connector		N-Female	
Impedance		50Ω	
Power Consumption		8W	
Power Supply		Input: AC 110~240V; Output: DC 9V/5A	
Operating Temperature		-10°C~50°C	
Environment Conditions		IP40	
Dimensions (D x W x H)		310*170*65mm or 373*228*73	
Weight		5.5~9.5KG	




-  **Ripetitori OTTICI**
-  OPTICAL repeaters
-  OPTIQUE répéteurs
-  OPTICO repetidores




-  Il sistema è composto da due parti: donor & remote unit. La donor unit cattura segnale tramite antenna donatrice, poi converte in segnale ottico e trasmette il segnale amplificato all'unità remota via cavo in fibra ottica. L'unità Remota riconverte il segnale ottico in segnale RF e fornire il segnale nelle zone dove la copertura di rete è inadeguata.

-  Le système se compose de deux parties: les donateurs et l'unité distante. La donneur signal de l'unité de capture par l'antenne donneur, puis convertit le signal optique et transmet le signal amplifié à l'unité distante par l'intermédiaire d'un câble à fibre optique. Les unités à distance convertissent le signal optique en signal RF et fournir le signal dans les zones où la couverture du réseau est insuffisante.



-  The system consists of two parts: donor & remote unit. The donor unit capture signal via the donor antenna, then converts the optical signal and transmits the amplified signal to the remote unit via fiber optic cable. The Remote units convert the optical signal into RF signal and provide the signal in areas where the network coverage is inadequate.

-  Il Sistema è composto da debido parti: donante y unidad remota. las unidades de donantes lla cattura segnale tramite antena donatrice, poi converte en segnale ottico e trasmette il segnale amplificato all'unità remota a través de cavo en Fibra Óptica. L'Unità Remota riconverte il segnale ottico en segnale RF e fornire il segnale nelle zona de la paloma copertura di rete è inadeguata.

MODELLO

AFT1WODGSM*/AFT1mWODGSM
8599/8608

AFT5WORGSM
8600

AFT20WORGSM
8601

CODICE

	DONOR UNIT	REMOTE 5W UNIT	REMOTE 20W UNIT
FREQ. UPLINK	890-915MHz	890-915MHz	890-915MHz
FREQ.DOWNLINK	935-960MHz	935-960MHz	935-960MHz
TRASMISSION DISTANCE	≤20Km	≤20Km	≤20Km
MAX GAIN	≥85dB or ≥95dB	≥85dB	≥95dB
MAX OUTPUT POWER	30dBm/0dBm	UP 30dBm/DL 37dBm	UP 30dBm/DL 43dBm
GAIN ADJUSTMENT RANGE	1-31dB@STEP of 1dB	1-31dB@STEP of 1dB	1-31dB@STEP of 1dB
MAX INPUT POWER	10dBm	6dBm	10dBm
I/O IMPEDANCE	50 Ω	50 Ω	50 Ω
NOISE FIGURE	≤4dB	≤4dB	≤4dB
SYSTEM DELAY TIME	≤5uSec	≤5uSec	≤5uSec
APPLICATION	Indoor or outdoor(IP65)	Indoor or outdoor(IP65)	Indoor or outdoor(IP65)
SPURIOUS EMISSION	9kHz-1GHz: ≤-36dBm/30kHz 1GHz-12.75GHz: ≤-30dBm/30kHz	9kHz-1GHz: ≤-36dBm/30kHz 1GHz-12.75GHz: ≤-30dBm/30kHz	9kHz-1GHz: ≤-36dBm/30kHz 1GHz-12.75GHz: ≤-30dBm/30kHz
RF CONNECTOR	1xN female	1xN female	1xN female
POWER CONSUMPTION	≤120W	≤170W	≤200W
POWER SUPPLY	Ac220V, 50Hz	Ac220V, 50Hz	Ac220V, 50Hz
SIZE-WEIGHT	428x328x175mm / 15Kg	428x328x175mm / 15Kg	428x328x175mm / 15Kg
OPTICAL CONNECTOR	4x FC/APC	4x FC/APC	4x FC/APC
FIBER OPTIC LIGHT SOURCE	Laser unit (1310nm/1550nm)	Laser unit (1310nm/1550nm)	Laser unit (1310nm/1550nm)
OPTICAL OUTPUT POWER	≥0dBm(1310nm)/≥3dBm(1550nm)	≥0dBm(1310nm)/≥3dBm(1550nm)	≥0dBm(1310nm)/≥3dBm(1550nm)
OPTICAL RECEIVER SENSITIVITY	≤-25dBm	≤-25dBm	≤-25dBm
RELATIVE HUMIDITY RANGE	≤95%	≤95%	≤95%

*8599-AFT1WODGSM = 8608-AFT1mWODGSM + accessori



TELEFONIA KIT PASSIVI GDU

3B elettronica

Kit passivi GSM 900 MHz DCS 1,8 GHz UMTS 2,1GHz

900 MHz GSM and 1,8 GHz DCS 2,1 GHz UMTS passive kits

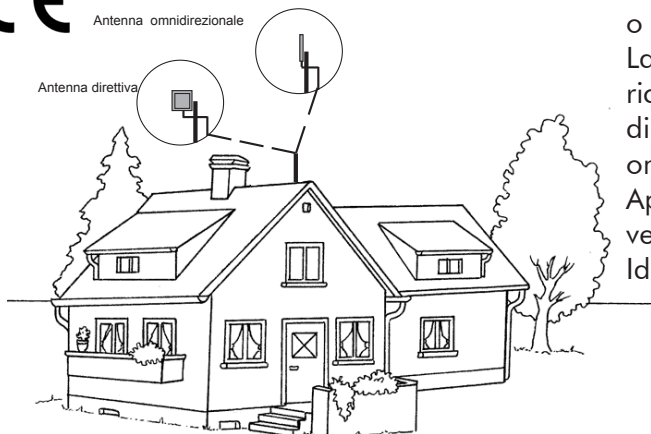
Kits passifs GSM 900 MHz DCS 1,8 GHz UMTS 2,1 GHz

Kit passivo GSM 900 MHz DCS 1,8 GHz UMTS 2,1 GHz



Antenna omnidirezionale

Antenna direttiva



Il sistema è composto da un'antenna esterna omnidirezionale o direttiva .

La scelta del tipo di antenna dipende dall'intensità del segnale ricevuto: nel caso sia molto basso converrà utilizzare un'antenna direttiva che dà un risultato superiore rispetto ad un'antenna omnidirezionale (+4dB).

Applicare il CONN-GDU sul cellulare con un biadesivo o velcro (fig.1).

Ideale per sistemi d'allarme GSM - DCS - UMTS.

Le système est composé par une antenne pour l'exterieur omnidirectionelle ou directive .

Le choix entre 2 antennes dépend de l'intensité du signal. Si il est trop bas il est mieux d'utilizer une antenne directive, avec haute gain (+4dB).

Appliqué sur le téléphone le CONN-GDU avec un bi-adhésiv ou simil. (fig.1). Spécial pour système d'alarm GSM - DCS - UMTS.

This system is formed by an omnidirectional or directive external antenna.

The choose between 2 antennas depend from the intensity of the signal, if it is very low is better to use a directive antenna, with better gain (+4dB).

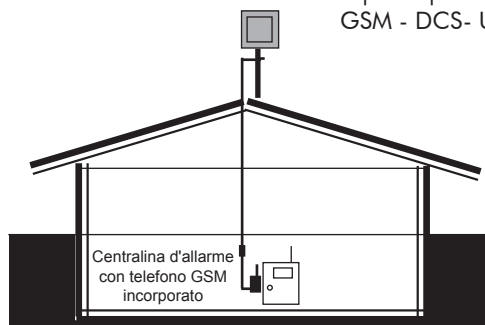
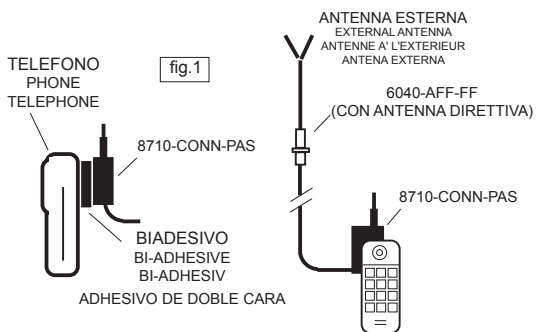
Apply the CONN-GDU on the phone with a bi-adhesive or similar (see fig.1). Suitable for GSM - DCS - UMTS alarm systems.

El Sistema està compuestu por una antena externa de tipo omnidireccional o direttiva.

La elección del tipo de antena depende de la intensidad de la señal. Si la señal es muy baja conviene utilizar una antena direttiva que proporciona una ganancia mayor (+4dB).

Instale el CONN-GDU en el mòvil mediante un adhesivo de doble cara o similar (ver fig.1).

Especial para Centrales de Alarma via GSM - DCS- UMTS.



MODELLO
CODICE

KPGDUD7
8505

KP-GDU4
8516

KPLGDU
8515

KPGDU12
8506

CARATTERISTICHE

CHARACTERISTICS

ANTENNA ESTERNA
EXTERNAL ANTENNA

LUNGHEZZA CAVO
CABLE LENGHT

DIMENSIONI E PESO
SIZE & WEIGHT

TRIBANDA

TRIBANDA

TRIBANDA

TRIBANDA

DIRETTIVA (8945)

OMNI (8980)

DIRETTIVA (8770)

DIRETTIVA (8983)

10m SAT4

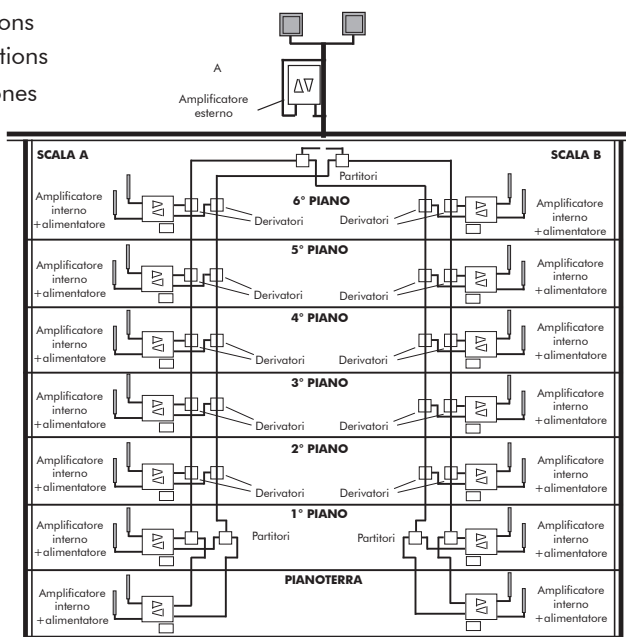
10m SAT4

10m SAT4

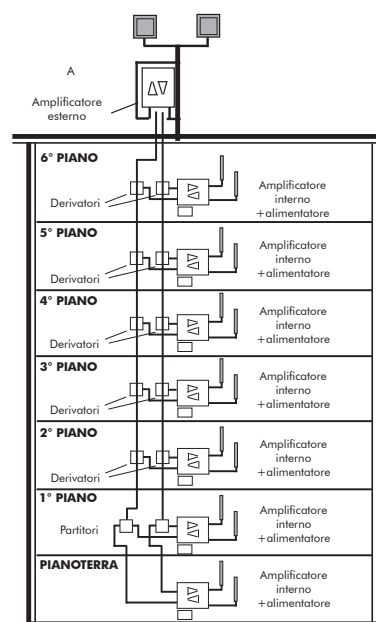
10m SAT4

70x38x24mm 0,5Kg

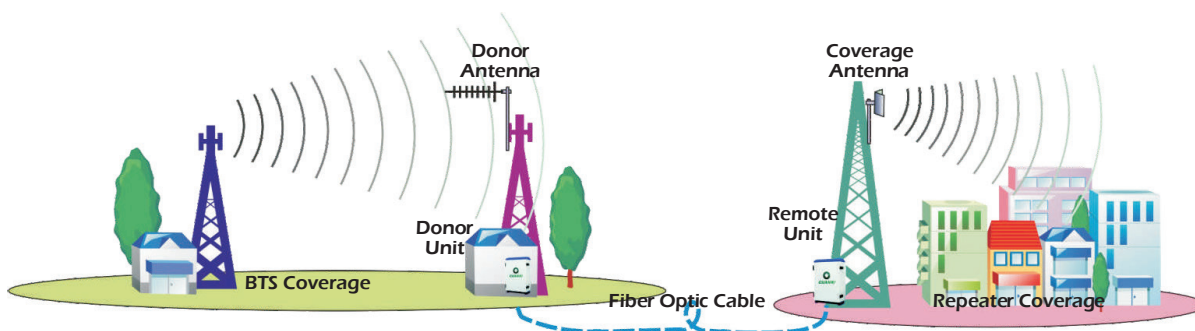
-  **Esempi di installazioni**
-  **Examples of installations**
-  **Exemples des installations**
-  **Ejemplo de instalaciones**



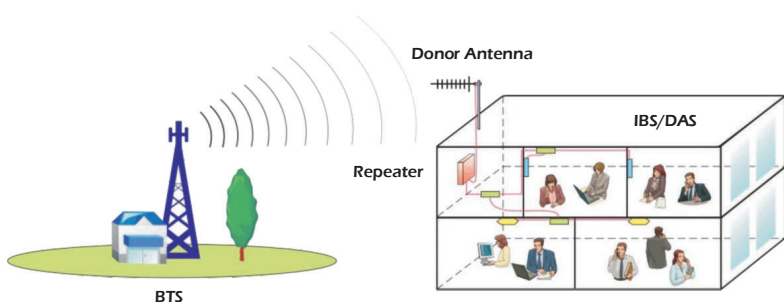
Esempio di installazione di kit attivi ad alto guadagno GSM 900 MHz su 2 scale di un palazzo o Hotel



Esempio di installazione di kit attivi ad alto guadagno GSM 900 MHz



Esempio di installazione di KIT OTTICI MONOCAVO



Esempio di installazione di KIT MONOCAVO

ATTENZIONE:

questi schemi sono solo indicativi, per le norme di installazione e di posizionamento delle antenne attenersi scrupolosamente alle istruzioni fornite nei kits. 3B Elettronica non è responsabile per un errato posizionamento delle antenne che possono causare eventuali interferenze.

ATTENTION:

these schemes are only indicative, for all installations rules and positioning of the antennas, follow exactly the mounting instructions as indicated inside each kit. 3B Elettronica is not responsible for a wrong mounting antennas that can cause interferences.

ATTENTION:

ces schémas sont seulement indicatifs, pour les règles d'installation et positionnement des antennes, suivre rigoureusement les instructions dans l'intérieur de chaque kit. 3B Elettronica n'est pas responsable pour une mauvaise installation des antennes que il peut causer interférences.

CUIDADO:

los schemes son indicativos, para le norme d'instalación y posicionamento de antenas seguir exactamente las instrucciones de montaje incuidas dentro de cada kit. 3B Elettronica non es responsable para un errato posicionamento de antenas que causa interferencias.



Accessori e parti di ricambio GSM/UMTS

- Accessories and spare parts GSM/UMTS
- Accessoires et parts de réchange GSM/UMTS
- Accesorios y parte de ricambio GSM/UMTS



AFT...
AFT...AL

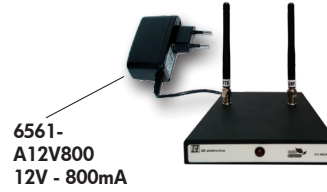


AFTL...

CX-902
CX-UMTS-A
CX-UMTS

CX-902-A

ANTIOMN1
ANTIUMTS



6561-
A12V800
12V - 800mA

CXL902A

CXLUMTSA



Accessori e parti di ricambio per telefonia

- Accessoires et parte de réchange pour téléphonie

Accessories and spare parts for telephonical items

- Accesorios y parte de ricambio para telefonia

Basi interne - Inner base - Base à l'intérieur - Base interna

MODELLO CODICE	GSM			UMTS		
	AFT-GSMAL 8610	AFT-GSM 8590	AFTLGSMAL 8611	AFTUMTSAL 9116	AFT-UMTS 9120	AFTLUMTAL 9119
CARATTERISTICHE CHARACTERISTICS	AMPLIF. GSM ALIMENTATO		AMPLIF. GSM C.A.S. ON/OFF	AMPLIF. UMTS ALIMENTATO		AMPLIF. UMTS C.A.S. ON/OFF
DIMENSIONI E PESO SIZE & WEIGHT	160x110x80mm 0,6Kg					

Amplificatori esterni - Outdoor amplifiers - Amplificateurs pour l'extérieur - Amplificadores externo

MODELLO CODICE	GSM			UMTS		
	CX-902 8620	CX-902A 8820	CXL902A 8821	CX-UMTS 9125	CX-UMTSA 9135	CXLUMTSA 9139
CARATTERISTICHE CHARACTERISTICS	BASE GSM PASS. BASE GSM AMP.		BASE GSM AMP. C.A.G. ON/OFF	BASE UMTS PASS.	BASE UMTS AMP.	BASE UMTS AMP. C.A.G. ON/OFF
DIMENSIONI E PESO SIZE & WEIGHT	180x120x20mm 0,6Kg			180x120x20mm 0,6Kg		



- Antenne**
- Antennas
- Antennes
- Antenas



8983N-ADIR-GDUN



8945N-ADIR-GDU



8770N-ADIRL-GDU



8948-APDIRUMTS



8988N-AP14

MODELLO CODICE	ADIR GDU 8945N	APDIR-UMTS 8948	ADIR-GDUN 8983N	ADIRL-GDU 8770N	AP14 8988N
CARATTERISTICHE CHARACTERISTICS	DIRETTIVA TRIBAND	DIRETTIVA UMTS	DIRETTIVA TRIBAND	DIR. LOG. TRIBAND	DIRETTIVA
FREQUENZA FREQUENCY	800:960 1710:2600	1710:2170 MHz	800:960 1710:2600	800:960 1710:2600	698:960 1710:2600
IMPEDENZA IMPEDANCE	50 ohm	50 ohm	50 ohm	50 ohm	50 ohm
POLARIZZAZIONE POLARIZATION	VERTICALE	VERTICALE	VERTICALE	VERTICALE	VERTICALE
ROS MAX	<2	<1,6		<1,5	<1,7
GUADAGNO GAIN	7 dBi	4 dBi	11/12 dBi	12 dBi	14 dBi
COLORE COLOUR	BIANCO	BIANCO	BIANCO	BIANCO	BIANCO
ELEMENTI RAD. RADIANT ELEM.	OTTONE	CIRCUITO STAMPATO	CIRCUITO STAMPATO	CIRCUITO STAMPATO	CIRCUITO STAMPATO
RAPPORTO A/I	>20	>20	25dB	>20	>20
PESO WEIGHT	0,35Kg	0,2Kg	1,2Kg	1Kg	5,5Kg
LARG.LOBI IRR. -piano E -3dB -piano H -3dB	70° ±5° 50 ±3°	70° ±5° 50 ±3°	60/45°±6° 45/30°±6°	50/40° 65/50°	35°° 65°:35°
POTENZA APPL. POWER	20Wcc	20Wcc	50W	100W	100W
LARGHEZZA WIDHT	165mm	100mm	225mm	430mm	328mm
LUNGHEZZA LENGHT					
ALTEZZA HEIGHT	155mm	110mm	340mm	210mm	700mm
PROFONDITA' DEEP	50mm	25mm	65mm	80mm	140mm
CONNETTORE CONNECTOR	N	SMA	N	N	2xN/FEMALE



TELEFONIA
ANTENNE OMNIDIREZIONALI

3B elettronica

- Antenne**
- Antennas
- Antennes
- Antenas



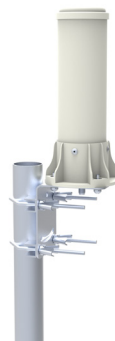
8985N-AFLATGDU



8986N-AOGDUN
8981-AGSM-PCM-UMTS



8987N-AFLATSLIM



8980-AGDU4

8984N-AGDU-N



ANTENNE STILO

MODELLO CODICE	AFLATSLIM 8987N	AGDU-N 8984N	AGDU4 8980	AFLATGDU 8985N	ANTOEGDUL 8874	ANTIOMN1 8870	AOGDUN 8986N	AGSM-PCM-UMTS 8981
TIPO TYPE	OMNI	OMNI	OMNI	OMNI	STILO	STILO GSM	OMNI	OMNI
FREQUENZA FREQUENCY	698:960 1710:2700	824:960 1710:2500	698:960 1710:2700	698:960 1710:2700	698:960 1710:2700		698:960 1710:2700	890:960 1710:2500
IMPEDENZA IMPEDANCE	50 ohm	50 ohm	50/75 ohm	50 ohm	50 ohm	75 ohm	75 ohm	50 ohm
POLARIZZ. POLARIZ.	V	V	V	V	V	V	V	V
ROS MAX	<2	<1.5	<2	<2			<2	<2
GUADAGNO GAIN	4/6 dB	10 dBi	4-5 dBi	4/6 dB			6 dB	3 dBi
COLORE COLOUR	BIANCO	NERO	BIANCO AVORIO	BIANCO	BIANCO	BIANCO AVORIO	BIANCO	BIANCO
PESO WEIGHT	0.4Kg	4.5Kg	0,4Kg	0.4Kg	8g	6g	0,4Kg	0,35Kg
POTENZA APPL. POWER	50W	200W	100w	50W			50W	50Wcc
LARGHEZZA WIDHT		700mm	220mm					
LUNGHEZZA LENGHT								
ALTEZZA HEIGHT	15mm	76mm		40mm	100mm	75mm	98mm	80mm
DIAMETRO DIAMETER	218mm		63mm	218mm	5,5mm	5,5mm	203mm	170x110mm
PROFONDITA' DEEP								
CONNETTORE CONNECTOR	N	N	A RICHIESTA N-SMA-F	N	N femm	F femm	N	N



Triplo filtro equalizzatore

- triple equalizator filter
- Triple filter égaliseur
- Triple filtro ecualizador

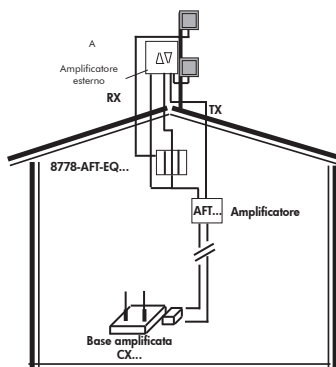


Triplo filtro equalizzatore telealimentato.
In caso di segnali con alte differenze di livello tra i gestori, con questo articolo posso equalizzarli così da massimizzare il guadagno, senza interferire.

triple equalizator filter telesupply

Triple filter égaliseur autoalimenté

Triple filtro ecualizador autoalimentados



AFT-EQ...



AMTEQ...



MODELLO
CODICE

**AFT-EQ
8778**

**AMTEQ
8779**





MONOCAVO

	GSM 935-945-955 MHz	GSM 935-945-955 MHz
CANALI CHANNELS		
N° CELLE CELLS' N°	3x6	3x6
LIVELLO MAX USCITA MAX LEVEL OUTPUT	95dBμV	95dBμV
GUADAGNO GAIN	8dB	8dB
LARGHEZZA BANDA WIDE BAND	15MHz	15MHz
SELETTIVITA' CH.n-2 SELECTIVITY CH.n-1	≥ 60dB ≥ 18dB	≥ 60dB ≥ 18dB
FILTRI PASSIVI PASSIVE FILTERS	-	Uplink GSM 880÷915Mhz BW UMTS 1920÷2170Mhz
ASSORBIMENTO CURRENT	120mA	120mA
N° MOSFET N° MOSFET	3x2	3x2
CONNETTORE CONNECTOR	F	N
IMPEDENZA IMPEDANCE	75ohm	50ohm
ALIMENTAZIONE POWER SUPPLY	12Vcc TELEALIMENTATO	ALIM. Switching A12V1900
MONTAGGIO MOUNTING	BARRA DIN-PIASTRE-ARMADI	BARRA DIN-PIASTRE-ARMADI
DIMENSIONI E PESO SIZE & WEIGHT	190x197x85mm 1,15Kg	190x197x85mm 1,5Kg







TELEFONIA
SPLITTER TELEFONICI

3B elettronica

-  **Partitori per monocavo**
-  Splitters for one cable system
-  Repartiteurs pour un seul câble
-  Repartidores por monocable



-  Splitter 2/3/4 vie connettore "N" -4/-6/-8dB
-  Splitter 2/3/4 ways "N" connector -4 / -6/-8dB
-  Splitter 2/3/4 voies Connecteur "N" -4 /-6/ -8dB
-  Splitter 2/3/4 vías conector "N" -4 / -6/-8dB



MODELLO CODICE	2SPN8 5521	3SPN8 5520	4SPN8 5519
FREQUENZA FREQUENCY	750÷2600 MHz	750÷2600 MHz	750÷2600 MHz
CONN. IN/OUT FEMMINA FEMALE IN/OUT CONNECTOR	"N" 50 Ω + cc	"N" 50 Ω + cc	"N" 50 Ω + cc
CONN. IN/OUT FEMMINA FEMALE IN/OUT CONNECTOR	"N" 50 Ω	"N" 50 Ω	"N" 50 Ω
CONN. IN/OUT FEMMINA FEMALE IN/OUT CONNECTOR	-	"N" 50 Ω	"N" 50 Ω
CONN. IN/OUT FEMMINA FEMALE IN/OUT CONNECTOR	-	-	"N" 50 Ω
CONN. OUT/IN MIX FEMMINA FEMALE OUT/IN MIX CONN.	"N" 50 Ω + cc	"N" 50 Ω + cc	"N" 50 Ω + cc
PERDITA LOSS	4dB	6dB	8dB
POTENZA POWER	50W	50W	50W