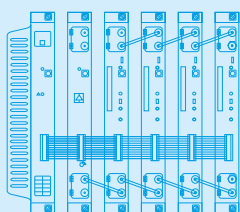
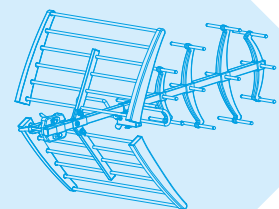


MULTIMEDIA-TV

Reception and distribution of TV signals

 **ALCAD**
home



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2022



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INDEX

Multimedia TV 2022

■ ANTENNAS

Terrestrial antennas	4
Satellite dishes	6
LNBS	7
Masts, towers and mechanical accessories	7
Preamplifiers, multiplexers and mast filters	9



9000201 | **NEO-082**

■ AMPLIFICATION

Mast amplifiers + kits	10
Apartment amplifiers	13
Broadband header amplifiers	15
Distribution amplifiers	18
Programmable amplifiers	19
Single channel amplifiers	20
Accessories for single-channel / programmable amplifiers	20
Amplifiers for multiswitches	21



SERIE **905-ZG**

■ DISTRIBUTION IN COAXIAL CABLE

Coaxial cables	22
Connectors, tools and accessories for coaxial cable	23
Splitters and taps	24
TV / SAT outlets	26
Rejection filters, preamps and attenuators	28
MU multiswitches	29
MB / ML multiswitches	30



9060036 | **FI-243**

■ DISTRIBUTION IN OTHER MEDIA

SMATV distribution in optical fiber	32
Distribution in fiber optics	34
CAT6 distribution	35



9160060 | **OTB-310**

■ SIGNAL PROCESSING

himalaya headends and accessories	36
Modulators and transmodulators for professional headends	38
DTT receivers	40
Standalone modulators.....	40



himalaya **headend**

■ APPENDIX

Lists of products	42
General terms of trade	54

ANTENNAS

Terrestrial antennas



9000202 | **BU-452**



9000200 | **NEO-042**



9000201 | **NEO-082**



9010019 | **SI-412**

/ LTE700 antennas

IN INDIVIDUAL PACKAGING

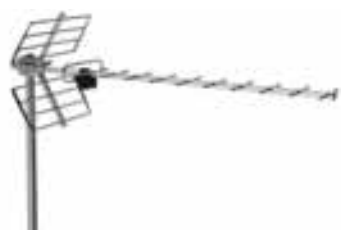
CODE	TYPE	DESCRIPTION	PACK.
9000110	BU-117	Yagi antenna, 15 dBi	144
9000105	BU-267	Yagi antenna, double array, small reflector, 15 dBi	74
9000111	BU-457	Yagi antenna, double array, large reflector, 16 dBi	74
9000202	BU-452	Yagi antenna, double array, large reflector, 16 dBi, with LTE700 filter	52
9000189	NEO-047	Yagi antenna, triple array, 16 dBi	32
9000200	NEO-042	Yagi antenna, triple array, 16 dBi, with LTE700 filter	32
9000187	NEO-087	Yagi antenna, large, triple array, 18 dBi	24
9000201	NEO-082	Yagi antenna, large, triple array, 18 dBi, with LTE700 filter	24
9000109	MX-047	Yagi antenna, quadruple array, 18 dBi	38
9000197	AP-367	Reflective array antenna, quadruple array, 16 dBi	48

IN BULK PACKAGING

CODE	TYPE	DESCRIPTION	PACK.
9000198	GAN-267	Box with 10 BU-267 antennas in individual plastic bags	10
9000112	GA-457	Box with 5 BU-457 antennas in individual plastic bags	12
9000203	GA-452	Box with 5 BU-452 antennas in individual plastic bags	12
9000199	GA-047	Box with 4 NEO-047 antennas in individual plastic bags	10

BALUN (SYMMETRIZER) WITH REJECTION

CODE	TYPE	DESCRIPTION	PACK.
9010019	SI-412	Balun that adds LTE700 rejection to BU, MX and NEO-04x antennas	1



9000084 | **BU-116**

/ LTE800 antennas

IN INDIVIDUAL PACKAGING

CODE	TYPE	DESCRIPTION	PACK.
9000084	BU-116	Yagi antenna, 15 dBi	144
9000107	NEO-046	Yagi antenna, triple array, 16 dBi	40
9000088	MX-076	Yagi antenna, large, quadruple array, 20 dBi	27

/ UHF antennas, 470-862 MHz

CODE	TYPE	DESCRIPTION	PACK.
9000077	BU-115	Yagi antenna, small, 13 dBi	216
9000042	BU-269	Yagi antenna, double array, 15 dBi	76
9000043	BU-569	Yagi antenna, large, double array, 18 dBi	27
9000185	NEO-085	Yagi antenna, large, triple array, 18 dBi	30



9000071 | **BT-151**



9000040 | **FM-102**

/ BIII, DAB and FM antennas

CODE	TYPE	DESCRIPTION	PACK.
9000071	BT-151	DAB, omnidirectional, vertical polarization, 0 dBi	2/180
9000063	BT-751	BIII yagi antenna, 12 dBi, C5-12	90
9000040	FM-102	FM antenna, 87.5-108 MHz, omnidirectional, 2 pieces per box	2/128
9000005	FM-200	FM antenna, 87.5-108 MHz, vertical and horizontal polarizations	64

Satellite dishes



9120157 | **PF-223**



9120216 | **PF-620**

/ Satellite dishes

CODE	TYPE	DESCRIPTION	PACK.
9120030	PF-230	Satellite dish, ø60cm, fiber, includes 1 single LNB	24
9120156	PF-220	Satellite dish, ø65cm, electro zinc plated steel	15
9120157	PF-223	Satellite dish, ø65cm, electro zinc plated steel, includes 1 single LNB	15
9120158	PF-224	Box with 5 PF-223 dishes and their respective LNBs	15
9120160	PF-420	Satellite dish, ø80cm, electro zinc plated steel	12
9120161	PF-423	Satellite dish, ø80cm, electro zinc plated steel, includes 1 single LNB	12
9120162	PF-424	Box with 5 PF-423 dishes and their respective LNBs	12
9120122	PF-431	Satellite dish, ø85cm, fiber	15
9120216	PF-620	Satellite dish, ø100cm, electro zinc plated steel	8
9120220	PF-742	Satellite dish, ø100cm, aluminium with polyester coating	100

LNBs



9120262 | **UE-005**



9120265 | **UE-404**

/ With coaxial output

CODE	TYPE	DESCRIPTION	PACK.
9120262	UE-005	Single LNB, Ku band	1
9120263	UE-203	Twin LNB, Ku band	1
9120264	UE-301	Quad LNB, Ku band	1
9120265	UE-404	Quattro LNB, universal	1

Masts, towers and mechanical accessories



9980051 | **TI-025**



9980050 | **TS-025**



9980055 | **BE-001**

/ Towers

CODE	TYPE	DESCRIPTION	PACK.
9980051	TI-025	Bottom tower section, 2.5m	1
9980052	TS-015	Top tower section, 1.5m	1
9980050	TS-025	Top tower section, 2.5m	1
9980053	BF-003	Fixed base, secured by metal bolts	4
9980055	BE-001	Reinforced embedded base plate	4



9980008 | **MT-352**



9980003 | **MT-410**



9980066 | **RD-100**

/ Masts

CODE	TYPE	DESCRIPTION	PACK.
9980002	MT-210	Mast, 1500x35x1.5mm, galvanized iron	6
9980003	MT-410	Mast, 2500x35x1.5mm, galvanized iron	6
9980102	MT-411	Mast, 2500x40x2.0mm, galvanized iron	6
9980004	MT-325	Telescopic mast, 3000x25x1.5mm, zinc plated iron	6
9980005	MT-332	Telescopic mast, 3000x30x1.5mm, zinc plated iron	6
9980006	MT-338	Telescopic mast, 3000x35x1.5mm, zinc plated iron	6
9980007	MT-345	Telescopic mast, 3000x40x1.5mm, zinc plated iron	6
9980008	MT-352	Telescopic mast, 3000x45x1.5mm, zinc plated iron	6



9980056 | **GM-040**



9980067 | **GM-200**



9980069 | **SE-090**

/ Wall clamps

CODE	TYPE	DESCRIPTION	PACK.
9980016	GM-026	Wall clamp, 285mm, zinc plated iron	50
9980056	GM-040	Wall clamp, 300mm, zinc plated iron	100
9980057	GM-050	Wall clamp, 480mm, zinc plated iron	10
9980067	GM-200	Clamp with 200mm metal bolts	12
9980068	GM-350	Clamp with 300mm metal bolts	1
9980100	GM-515	Clamp with 500mm metal bolts	1
9980069	SE-090	Flange plate to be secured with 165mm metal bolts	50

/ Wall supports

CODE	TYPE	DESCRIPTION	PACK.
9980065	RS-500	Horizontal reinforced antenna support, zinc plated iron	12
9980066	RD-100	Double horizontal reinforced antenna support, zinc plated iron	6
9980115	BZ-401	Wall support for ø65cm satellite dishes, galvanized iron	1
9980063	BZ-400	Wall support for ø85cm satellite dishes, galvanized iron	1



9980018 | **BE-201**



9980013 | **BB-001**

/ Other accessories

CODE	TYPE	DESCRIPTION	PACK.
9980009	PI-101	Satellite dish support (up to ø110cm), secured to BE-201 using 165mm metal bolts	1
9980018	BE-201	Embebed satellite dish base (up to ø110cm)	6
9980023	SA-010	Support for 2 LNBs in PF-230/431 dishes for satellites 6° apart	1
9980062	CT-001	ø2mm steel cable	100
9980114	CT-003	ø3mm steel cable	100
9980014	TE-014	1/4" tightener	1
9980059	AC-013	Cable clamps for ø2mm steel cable	25
9980058	AC-014	Cable clamps for ø1/4" steel cable	1
9980011	JV-335	Ring and clamp to secure masts with steel cables	100
9980013	BB-001	Bar clamp, ø60mm	100
9980012	BB-002	Double reinforced bar clamp, ø60mm	75
9980099	CH-030	Chimney clamp, ø35mm zinc plated steel tubes	1
9980020	TA-001	Tilttable base for rooftop for ø40mm masts	6

Preamplifiers, multiplexers and mast filters

/ Preamplifiers



9010008 | **BR-401**

FOR BU, MX, NEO-04X AND NEO-148 ANTENNAS

CODE	TYPE	DESCRIPTION	PACK.
9010009	BR-411	UHF preamplifier, 14dB, 12V	100
9010008	BR-401	UHF preamplifier, 14dB, 24V	100
9010018	BR-407	UHF preamplifier, 14dB, 24V, with LTE700 filter	100

FOR NEO-08X AND NEO-09X ANTENNAS

CODE	TYPE	DESCRIPTION	PACK.
9010013	BR-421	UHF preamplifier, 14dB, 24V	100

/ Mast rejection filters



9020052 | **FR-900**

CODE	TYPE	DESCRIPTION	PACK.
9020052	FR-900	LTE700 rejection filter, bandpass up to C48 (694 MHz), 60dB	24
9020048	FR-619	LTE800 rejection filter, bandpass up to C60 (790 MHz), 60dB	24

/ Mast multiplexers



9020041 | **MM-200**



9020017 | **MM-303**

CODE	TYPE	DESCRIPTION	PACK.
9020040	MM-207	2 inputs, VHF/FM - UHF, no DC path	24
9020041	MM-200	2 inputs, 40-862 MHz, both with DC path	24
9020045	MM-214	2 inputs, 5-862 MHz + SAT, DC path in SAT	24
9020042	MM-307	3 inputs, VHF/FM - UHF1 - UHF2, DC path in UHF2	24
9020017	MM-303	3 inputs, FM - VHF - UHF, DC path in UHF	24

AMPLIFICATION

Mast amplifiers + kits



9030209 | **AM-915**



9030207 | **AM-396**

/ LTE700 mast amplifiers, 108 dB μ V

CODE	TYPE	DESCRIPTION	PACK.
9030192	AM-190	1 input, UHF 20 dB, 24 Vdc	24
9030193	AM-195	1 input, UHF 32 dB, 24 Vdc	24
9030185	AM-183	1 or 2 inputs, UHF 24dB + DAB/FM 16dB, 12 Vdc	24
9030186	AM-187	1 or 2 inputs, UHF 24dB + DAB/FM 16dB, 12 Vdc	24
9030194	AM-292	2 inputs, UHF 20dB + DAB/FM 10dB, 24 Vdc	24
9030195	AM-296	2 inputs, UHF 32dB + DAB/FM 20dB, 24 Vdc	24
9030209	AM-915	2 inputs, UHF 40dB + DAB 28dB, 24 Vdc	24
9030207	AM-396	3 inputs, (UHF1 + UHF2) 32dB + DAB/FM 20dB, 24 Vdc	24
9030201	AM-397	3 inputs, UHF 32dB + (DAB + FM) 20dB, 24 Vdc	24
9030200	AM-387	3 inputs, UHF 32dB + (DAB + FM) 20dB, 12 Vdc	24
9030204	AM-497	4 inputs, (UHF1 + UHF2) 32dB + (DAB + FM) 20dB, 24 Vdc	24
9030205	AM-487	4 inputs, (UHF1 + UHF2) 32dB + (DAB + FM) 20dB, 12 Vdc	24

/ Kits of LT700 mast amplifiers + power supply

CODE	TYPE	DESCRIPTION	PACK.
9030196	BO-190	Kit AM-190 amplifier + AL-100 power supply	24
9030197	BO-195	Kit AM-195 amplifier + AL-100 power supply	24
9030198	BO-292	Kit AM-292 amplifier + AL-100 power supply	24
9030199	BO-296	Kit AM-296 amplifier + AL-100 power supply	24
9030210	BO-915	Kit AM-915 amplifier + AL-100 power supply	24
9030208	BO-396	Kit AM-396 amplifier + AL-100 power supply	24
9030202	BO-397	Kit AM-397 amplifier + AL-100 power supply	24
9030206	BO-497	Kit AM-497 amplifier + AL-100 power supply	24



9030208 | **BO-396**



9030163 | **AM-165**



9030188 | **AM-177**

/ LTE800 mast amplifiers, 108 dB μ V

CODE	TYPE	DESCRIPTION	PACK.
9030163	AM-165	1 input, UHF 32 dB, 24 Vdc	24
9030188	AM-177	1 o 2 inputs, UHF 34dB + DAB/FM 20dB, 12 Vdc	24
9030176	AM-274	2 inputs, UHF 34dB + DAB 20dB, 12 Vdc	24
9030190	AM-913	2 inputs, UHF 40dB + DAB 28dB, 24 Vdc	24
9030177	AM-374	3 inputs, (UHF1 + UHF2) 34dB + DAB 20dB, 12 Vdc	24

/ Kits of LT800 mast amplifiers + power supply

CODE	TYPE	DESCRIPTION	PACK.
9030167	BO-165	Kit AM-165 amplifier + AL-100 power supply	24
9030173	BO-366	Kit AM-366 amplifier + AL-100 power supply	24
9030191	BO-913	Kit AM-913 amplifier + AL-100 power supply	24

/ Non-LTE mast amplifiers and amplifier kits, 108 dB μ V

CODE	TYPE	DESCRIPTION	PACK.
9030142	AM-246	2 inputs, UHF 32dB + DAB/FM 20dB, 24 Vdc	24

/ Mast amplifiers with FI

CODE	TYPE	DESCRIPTION	PACK.
9030211	BO-696	Mast amplifier + power supply kit, 3 inputs, UHF 32dB + DAB/FM 20dB + IF, 24 Vdc	24
9030213	AL-245	Power supply 12 Vdc 400 mA with DC path 13/18 Vdc for LNB, 2 outputs (85-265 Vac)	24
9030212	AM-696	Mast amplifier 3 inputs, SAT-UHF-DAB/FM, SAT coupling -2 dB, UHF gain 32 dB, DAB/FM gain 20 dB, LTE700 rejection, power supply 12-18 Vdc	24

/ Mast amplifiers with custom filters. 106 dB μ V

CODE	TYPE	DESCRIPTION	PACK.
9030048	AM-309	3 inputs, (UHF1 + UHF2) 36dB + BI/FM/DAB 30/20/30dB, 24 Vdc, UHF filters configured on manufactured	24



9030086 | **AL-100**



9030103 | **AL-110**

/ Power supplies for mast amplifiers

CODE	TYPE	DESCRIPTION	PACK.
9030086	AL-100	24 Vdc, 100 mA, 2 outputs	24
9030087	AL-105	12 Vdc, 100 mA, 2 outputs	24
9030119	AL-125	12 Vdc, 100 mA, 2 outputs, UK plug	24
9030103	AL-110	24 Vdc, 100 mA, 4 outputs	24

Apartment amplifiers



9040129 | **AI-270**



9040063 | **AI-400**

/ TV, 102-104 dB μ V

CODE	TYPE	DESCRIPTION	PACK.
9040053	AI-100	2 unbalanced OUT1/OUT2 outputs, UHF 24/13 dB, VHF 14/3 dB	24
9040062	AI-108	2 unbalanced OUT1/OUT2 outputs, UHF 24/13 dB, VHF 14/3 dB, with RP for Dual View I, Digibox and Sky+	24
9040050	AI-200	2 outputs, UHF 24 dB, VHF 14 dB	24
9040254	AI-201	Splitband amplifier 1 input, 2 outputs, UHF-VHF/S, UHF gain 24 dB, VHF/S gain 14 dB (230 Vac)	-
9040125	AI-240	2 outputs, UHF 24 dB, VHF 14 dB, filtro LTE800	24
9040129	AI-270	2 outputs, UHF 24 dB, VHF 14 dB, filtro LTE700	24
9040255	AI-271	Splitband amplifier 1 input, 2 outputs, UHF-VHF/S, UHF gain 24 dB, VHF/S gain 14 dB, LTE700 rejection (230 Vac)	-
9040063	AI-400	4 outputs, UHF 28 dB, VHF 20 dB	24

/ CATV

CODE	TYPE	DESCRIPTION	PACK.
9040056	AI-131	2 unbalanced, equalizable OUT1/OUT2 outputs, 47-862 MHz 24/10 dB, RP 30 MHz, 113/99 dB μ V	24
9040057	AI-133	2 unbalanced, equalizable OUT1/OUT2 outputs, 86-862 MHz 24/10 dB, RP 65 MHz, 113/99 dB μ V	24
9040051	AI-221	2 outputs, 47-862 MHz 25 dB, RP 30 MHz, 105 dB μ V	24
9040052	AI-223	2 outputs, 86-862 MHz 25 dB, RP 65 MHz, 105 dB μ V	24
9040130	AI-231	2 outputs, 47-862 MHz 28 dB, RP 30 MHz, 110 dB μ V	24
9040123	AI-233	2 outputs, 86-862 MHz 28 dB, RP 65 MHz, 110 dB μ V	24

/ TV/SAT

CODE	TYPE	DESCRIPTION	PACK.
9040075	AI-414	4 outputs, UHF 12 dB 91 dB μ V, SAT 25 dB 108 dB μ V	24



Powerful broadband amplifiers in a very small footprint



Page 15



GREAT POWER IN A SMALL FOOTPRINT

Up to 110 dBμV and with LTE700-ready options



RELIABLE AND VERSATILE

The external power supply allows for easy maintenance



EASY INSTALLATION

No programmer or special tools needed

Broadband header amplifiers



9040073 | **CA-220**

/ Broadband amplifiers

102-107 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040060	CA-210	1 input, 2 outputs, UHF 25dB, VHF 24dB, 102 dBμV, 24 Vdc	24
9040061	CA-215	1 input, 2 outputs, UHF 25dB, VHF 24dB, 102 dBμV, 12 Vdc	24
9040073	CA-220	1 input, 4 outputs, TV 22dB, SAT 25dB, 107 dBμV, 24 Vdc	24



9040147 | **CA-361**

TWO OUTPUTS, 110 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040011	CA-311	2 inputs, UHF 42dB + BI/FM/DAB 33dB	24
9040147	CA-361	2 inputs, UHF 42dB LTE700 + BI/FM/DAB 32/22/32dB	24
9040014	CA-310	3 inputs, (UHF1 + UHF2) 42dB + BI/FM/DAB 35/25/35dB	24
9040116	CA-340	3 inputs, (UHF1 + UHF2) 45dB LTE800 + BI/FM/DAB 35/25/35dB	24
9040141	CA-360	3 inputs, (UHF1 + UHF2) 42dB LTE700 + BI/FM/DAB 32/22/32dB	24
9040039	CA-312	4 inputs, (UHF1 + UHF2) 30dB + (DAB + BI/FM) 20dB	24
9040117	CA-342	4 inputs, (UHF1 + UHF2) 30dB LTE800 + (DAB + BI/FM) 20dB	24
9040146	CA-362	4 inputs, (UHF1 + UHF2) 30dB LTE700 + (DAB + BI/FM) 20dB	24

**K2, TWO OUTPUTS, 110 dBμV,
EXTERNAL POWER SUPPLY**

CODE	TYPE	DESCRIPTION	PACK.
9040151	CA-321	2 inputs, UHF 40dB + BI/FM/DAB 30/20/30dB	24
9040153	CA-371	2 inputs, UHF 40dB LTE700 + BI/FM/DAB 30/20/30dB	24
9040150	CA-320	3 inputs, (UHF1 + UHF2) 40dB + BI/FM/DAB 30/20/30dB	24
9040152	CA-370	3 inputs, (UHF1 + UHF2) 40dB LTE700 + BI/FM/DAB 30/20/30dB	24
9040251	FF-300	Spare power supply for k2 amplifiers, 24V/250mA	1



9040152 | **CA-370**



9040120 | **CA-440**

114-115 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040120	CA-440	3 inputs, (UHF1 + UHF2) 35dB LTE800 + DAB 35dB	24
9040121	CA-441	4 inputs, (BIV + BV + UHF) 35dB LTE800 + DAB 35dB, bandas BIV y BV configurables bajo pedido	24

SAT 120 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040003	CA-730	1 entrada, SAT 42dB, 120 dBμV, alimentación LNB 0/13/17V 0/22 KHz	8



9040142 | **CA-770**

TV Y TV/SAT, 118-122 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040103	CA-710	5 inputs, (UHF1 + UHF2 + UHF3) 51dB + (DAB + BI/FM) 41dB	8
9040077	CA-720	6 inputs, (UHF1 + UHF2 + UHF3) 51dB + (DAB + BI/FM) 41dB + SAT 45dB	8
9040142	CA-770	6 inputs, (UHF1 + UHF2 + UHF3) 51dB LTE700 + (DAB + BI/FM) 40dB + SAT 42dB	8



9040148 | **CA-661**



9040149 | **CA-663**



9040144 | **CA-672**

EVEREST

TV, 117 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040136	CA-611	3 inputs, UHF 45/30dB + (DAB + FM) 32dB	10
9040148	CA-661	3 inputs, UHF 45/30dB LTE 800 + (DAB + FM) 32dB	10
9040133	CA-612	4 inputs, (UHF1 + UHF2) 45/30dB + (DAB + FM) 32dB	10
9040132	CA-662	4 inputs, (UHF1 + UHF2) 45/30dB LTE700 + (DAB + FM) 32dB	10
9040134	CA-613	5 inputs, (UHF1 + UHF2 + UHF3) 45/30dB + (DAB + FM) 32dB	10
9040149	CA-663	5 inputs, (UHF1 + UHF2 + UHF3) 45/30dB LTE700 + (DAB + FM) 32dB	10
9040250	FF-200	External everest power supply for redundant power or as a spare part, 24Vdc/1A	11

TV/SAT, 117-118 dBμV

CODE	TYPE	DESCRIPTION	PACK.
9040143	CA-671	4 inputs, UHF1 45/30dB LTE700 + SAT 43dB + (DAB + BI/FM) 30dB	9
9040144	CA-672	5 inputs, (UHF1 + UHF2) 45/30dB LTE700 + SAT 43dB + (DAB + BI/FM) 30dB	9
9040250	FF-200	External everest power supply as a spare part, 24Vdc/1A	11

everest

New **everest** distribution amplifiers: what really matters is what's going on inside



Page 18



maximum
shielding



easy
installation



lower
heating



Made in
Spain

- Broadband amplifiers for both **terrestrial TV (117 dBuV)** and **satellite (118.5 dBuV)**.
- **Independent variable gain controllers and equalizers** for the terrestrial part and the satellite part.
- It amplifies the return path **from 5 to 30/65 MHz**.

Distribution amplifiers

/ Distribution amplifiers



9110000 | **DAM-504**



9040065 | **DA-520**



9040047 | **CF-116**

TV

CODE	TYPE	DESCRIPTION	PACK.
9040015	DA-720	Separate adjustment, VHF (47-422 MHz, 35dB), UHF (470-862 MHz, 36dB), 120 dBμV	8
9110000	DAM-504	CATV 54-862 MHz 34dB, RP 42 MHz 20dB, UK plug	1

TV/SAT

CODE	TYPE	DESCRIPTION	PACK.
9040065	DA-520	Double input and output, TV/SAT1 + TV/SAT2, 118 dBμV	8
9040032	CF-112	TV 47-862 MHz 40dB 113 dBμV, SAT 40dB 120 dBμV, RP 30 MHz 10dB	8
9040160	DA-741	TV 47-862 MHz 50dB, SAT 40dB, RP 30 MHz 20dB, 121 dBμV	8
9040161	DA-743	TV 86-862 MHz 50dB, SAT 40dB, RP 65 MHz 20dB, 121 dBμV	8



9040155 | **DA-601**

EVEREST TV AND TV/SAT

CODE	TYPE	DESCRIPTION	PACK.
9040155	DA-601	TV 47-862 MHz 34dB 117 dBμV, RP 30 MHz 18dB	10
9040156	DA-603	TV 86-862 MHz 34dB 117 dBμV, RP 65 MHz 18dB	10
9040157	DA-611	TV 47-862 MHz 34dB 117 dBμV, SAT 40dB 118,5 dBμV, RP 30 MHz 18dB	10
9040158	DA-613	TV 86-862 MHz 34dB 117 dBμV, SAT 40dB 118,5 dBμV, RP 65 MHz 18dB	10
9040250	FF-200	External everest power supply as a spare part, 24Vdc/1A	11

Programmable amplifiers



9040159 | **CAD-703**

/ Mont Blanc programmable digital amplifiers

CODE	TYPE	DESCRIPTION	PACK.
9040145	CAD-704	Mont Blanc, terrestrial only, 2xUHF/BIII + 2xUHF + 1xFM, 120 dBμV	6
9040159	CAD-703	Digital programmable amplifier, 3xUHF, 1xVHF, 1xFM, 32 filters, auto scan & AGC	5
9040154	CAD-713	Mont Blanc, terrestrial + SAT, 2xUHF + 1xBIII + 1xFM + 1xIF	1
9040252	FF-415	Spare power supply for CAD-703 and CAD-704 Mont Blanc amplifiers, 15V	1
9040253	FF-420	Spare power supply for CAD-704 and CAD-714 Mont Blanc amplifiers, 20V	1



9050126 | **ZA-411**



SERIE **905-ZA**

/ Programmable ZA amplifiers

CODE	TYPE	DESCRIPTION	PACK.
9050116	ZF-712	IF amplifier, 45dB, 123 dBμV	40

Single channel amplifiers



9050092 | **ZP-431**



9050106 | **ZG-212**



9050083 | **AS-125**

/ Single-channel / multichannel amplifiers

CODE	TYPE	DESCRIPTION	PACK.
9050092	ZP-431	Single-channel UHF amplifier, 40dB, 115 dBμV *	40
9050022	ZG-431	Single-channel *	40
9050023	ZG-412	Two-channel *	40
9050024	ZG-413	Three-channel *	40
9050026	ZG-414	Four-channel *	40
9050035	ZG-211	FM amplifier, 52dB, 123 dBμV	40
9050106	ZG-212	DAB amplifier, 50dB, 123 dBμV	40
9050074	ZG-611	BI/BIII/interband amplifier, 52dB, 123 dBμV	40
9050116	ZF-712	IF amplifier, 45dB, 123 dBμV	40
9050083	AS-125	Power supply for ZG/ZP/ZF, 24Vdc / 1,7A	28

* Selected channel or channels must be indicated

Accessories for single-channel / programmable amplifiers



9050100 | **SP-126**



9050124 | **CP-126**



9050043 | **VE-500**

/ Frames and cabinets

CODE	TYPE	DESCRIPTION	PACK.
9050099	SP-122	Frame for power supply and 4 modules	1
9050143	SP-123	Frame for power supply and 7 modules	1
9050100	SP-126	Frame for power supply and 12 modules	1
9050124	CP-126	Cabinet for SP-126 frame (1 power supply and 12 modules)	1
9050043	VE-500	Fan for CP-126 cabinet	1
9050178	CP-900	Lock for CP-126 cabinet	1



9050102 | **PZ-010**



9050119 | **PZ-020**



9050120 | **LT-102**



9050121 | **LT-112**

/ Bridge connectors, power cables and loads

CODE	TYPE	DESCRIPTION	PACK.
9050102	PZ-010	Fast F bridge connector	10
9050119	PZ-020	"F" male IEC Ø9,52mm plug bridge	10
9050052	ZP-002	Plug bridge	10
9050104	LT-107	10-line flat power cable, for up to 1 power supply and 18 modules	1
9050120	LT-102	Power cable faston to 10 pin male	1
9050121	LT-112	Power cable from faston connector to 10 pin female connector	1
9080019	RC-110	75Ω isolated load, F connector	10
9050004	RM-075	Shielded load 75 Ohm	10
9090043	IM-123	Current injector 24 Vdc, for 905-ZG & 905-ZP equipment with female F connector	1



9120144 | **PS-011**

/ Programmers for ZA amplifiers

CODE	TYPE	DESCRIPTION	PACK.
9120144	PS-011	Wireless programmer for ZA modules and other headends	1

Amplifiers for multiswitches

/ Multiswitch amplifiers



9130168 | **AU-621**



9130042 | **AU-640**

CODE	TYPE	DESCRIPTION	PACK.
9130168	AU-621	4 polarities, 23 dB, 119 dBμV	9
9130041	AU-620	4 polarities, 43 dB, 119 dBμV	9
9130169	AU-641	8 polarities, 23 dB, 119 dBμV	9
9130042	AU-640	8 polarities, 43 dB, 119 dBμV	9
9130057	FU-513	Power supply for AU-6XX amplifiers, 7,5 Vdc/3840 mA	28
9130054	FU-612	Power supply to feed LNBs from AU-6XX amplifiers, 18 Vdc/2000 mA	28
D913001	AU-0630	8 polarities + terrestrial, 18dB	1
D913004	AU-0680	16 polarities + terrestrial, 30 dB	1

DISTRIBUTION

IN COAXIAL CABLE

Coaxial cables



9080023 | **MC-302**

/ Coaxial cables

CODE	TYPE	DESCRIPTION	PACK.
9100064	CE-140	ø6.8 mm, 18dB/100m 800 MHz, 100 m, black	100
9100063	CE-150	ø6.8 mm, 18dB/100m 800 MHz, 100 m, white	100
9100056	CE-743	ø7 mm, 17dB/100m 800 MHz, 100 m, black	100
9100021	CE-753	ø7 mm, 17dB/100m 800 MHz, 100 m, white	100
9100060	CE-860	ø7 mm, tri-shield, 18dB/100m 800 MHz, 100 m, white	100
9100058	CE-754	ø6.7 mm, 17dB/100m 800 MHz, 100 m, white	100
9100068	CE-763	RG-6 coaxial cable CPR Dca, ø 7 mm, 75 Ohm , 16 dB/100 m at 800 MHz, 27 dB/100 m at 2150 MHz, Cu/CC/CCA, white PO HF by 100 m coils	100
9100057	CL-201	ø10.1 mm, 11dB/100m 800 MHz, 250m	250
9100019	CE-741	RG6, Cu/Al/Al, 16 dB/100m 800 MHz, 500 m, black	500
9100059	CE-755	ø7 mm, 16dB/100m 800 MHz, 500 m	500
9100061	CE-756	ø7 mm, 16dB/100m 800 MHz, 100 m	100
9100062	CE-757	ø6.7 mm, 17 dB/100m 800 MHz, 500m	500

Connectors, tools and accessories for coaxial cable



9080023 | **MC-302**



9080014 | **MC-104**



9080012 | **EP-111**



9080019 | **RC-110**

/ F connectors, splicers and loads

CODE	TYPE	DESCRIPTION	PACK.
9120039	CM-004	F male connector to screw onto ø6.5-6.8mm cable, shielded	100
9080023	MC-302	F male connector to screw onto ø6.9-7.2mm cable	100
9080033	MC-202	F male connector to screw onto RG-11 cable (CL-201)	25
9080034	MC-102	Quick F male connector to screw onto ø6.5-7.0mm cable	100
9080030	MC-304	F male compression connector for ø6.9-7.2mm cable	100
9080015	MC-204	F male compression connector for RG-11 cable (CL-201)	50
9080014	MC-104	F male connector to crimp onto ø7mm cable	50
9080012	EP-111	F-F female-female splicer, shielded	10
9080026	EP-311	F-F male-male splicer, shielded	100
9080019	RC-110	75Ω isolated load, F connector	10
9120011	RS-275	75Ω load, F connector	10



9080001 | **HC-095**



9080011 | **RH-095**



9080000 | **MC-095**



9080010 | **RM-095**

/ F connectors, splicers and loads

CODE	TYPE	DESCRIPTION	PACK.
9080001	HC-095	IEC female curved connector for ø6.5-6.8mm cable, shielded	25
9080029	HC-000	IEC female curved connector for ø6.5-7.2mm cable, shielded, zama	10
9080011	RH-095	IEC female straight connector for ø6.5-6.8mm cable, shielded	25
9080000	MC-095	IEC male curved connector for ø6.5-6.8mm cable, shielded	25
9080025	MC-000	IEC male curved connector for ø6.5-7.2mm cable, shielded, zamak	10
9080010	RM-095	IEC male straight connector for ø6.5-6.8mm cable, shielded	25
9080013	EP-212	IEC-IEC female-female splicer	10
9080020	EP-313	IEC-IEC male-male splicer	10
9050004	RM-075	75Ω load, IEC connector	10



9080017 | **HE-000**



9080018 | **HE-100**



9100050 | **GC-007**



9120027 | **LF-001**

/ Tools and accessories for coaxial cable

CODE	TYPE	DESCRIPTION	PACK.
9080017	HE-000	Stripping tool for ø6.5-7.1mm cable	1
9080028	HE-002	Cylindrical stripping tool for ø6.5-7.1mm cable	1
9080021	HE-001	Stripping tool for RG-11 cable (CL-201)	1
9080018	HE-100	Mounting tool for F male connectors	1
9080022	HE-201	Compression tool for MC-204 and MC-304 connectors	1
9080016	HE-200	Crimping tool for MC-104 connectors	1
9080004	EM-101	Splicer to keep together two sections of coaxial cable	25
9100050	GC-007	Cable wall support with nail for ø6.7mm cable	100
9120027	LF-001	F connector wrench tool	3

Splitters and taps



9060036 | **FI-243**



9060101 | **DI-803**



9060099 | **DI-403**

/ Splitters

CODE	TYPE	DESCRIPTION	PACK.
9060036	FI-243	2 outputs, F connectors	6
9060055	FI-244	2 outputs, F connectors, DC path from output to input	6
9060037	FI-473	4 outputs, F connectors	6
9060056	FI-474	4 outputs, F connectors, DC path from output to input	6
9060079	FI-594	5 outputs, F connectors, DC path from output to input	6
9060097	DI-203	2 outputs, F connectors, DC path from output to input	12
9060098	DI-303	3 outputs, F connectors, DC path from output to input	12
9060099	DI-403	4 outputs, F connectors, DC path from output to input	12
9060100	DI-603	6 outputs, F connectors, DC path from output to input	12
9060101	DI-803	8 outputs, F connectors, DC path from output to input	12
9130059	DI-213	2 outputs, F connectors, paso de corriente de entrada a salida, for multiswitches	6
9130060	DI-413	4 outputs, F connectors, paso de corriente de entrada a salida, for multiswitches	6
9090016	DV-102	2 outputs, female IEC input and male IEC outputs	1
9130062	DU-240	Frame equipped with 9x DI-213, for multiswitches	1

Distribution in coaxial cable

/ Multiplexers

CODE	TYPE	DESCRIPTION	PACK.
9020015	ME-214	2 inputs TV-SAT, 1 output TV+SAT	6
9020019	ME-213	3 inputs TV-SAT1-SAT2, 2 outputs TV+SAT1-TV+SAT2	6
9090017	MD-104	2 female IEC inputs, 1 male IEC output	1



9060031 | **FP-211**



9060046 | **FP-414**



9060068 | **DE-401**

/ 5-2400 MHz, F connector

FLAT TAPS

CODE	TYPE	DESCRIPTION	PACK.
9060031	FP-211	2 outputs @11dB	6
9060032	FP-217	2 outputs @17dB	6
9060043	FP-223	2 outputs @23dB	6
9060044	FP-226	2 outputs @26dB	6
9060046	FP-414	4 outputs @14dB	6
9060047	FP-420	4 outputs @20dB	6
9060048	FP-426	4 outputs @26dB	6
9060063	DE-201	2 outputs @13.5dB	1
9060064	DE-203	2 outputs @16.5dB	1
9060065	DE-205	2 outputs @22dB	12
9060066	DE-207	2 outputs @27dB	12
9060068	DE-401	4 outputs @15dB	1
9060069	DE-403	4 outputs @17.5dB	12
9060070	DE-405	4 outputs @22.5dB	12
9060071	DE-407	4 outputs @28.5dB	12
9060073	DE-603	6 outputs @21dB	12
9060074	DE-605	6 outputs @24.5dB	12
9060075	DE-607	6 outputs @27.5dB	12

EQUALIZED TAPS

CODE	TYPE	DESCRIPTION	PACK.
9060053	FD-210	2 outputs, 13dB @862 MHz and 8.5dB @2150 MHz	6
9060033	FD-213	2 outputs, 17.5dB @862 MHz and 12dB @2150 MHz	6
9060034	FD-219	2 outputs, 24dB @862 MHz and 17.5dB @2150 MHz	6
9060035	FD-225	2 outputs, 30dB @862 MHz and 26dB @2150 MHz	6
9060054	FD-410	4 outputs, 15dB @862 MHz and 10dB @2150 MHz	6
9060038	FD-413	4 outputs, 18.5dB @862 MHz and 13.5dB @2150 MHz	6
9060039	FD-419	4 outputs, 24dB @862 MHz and 18.5dB @2150 MHz	6
9060040	FD-425	4 outputs, 30dB @862 MHz and 25.5dB @2150 MHz	6



9130167 | **DU-900**

/ Accessories

CODE	TYPE	DESCRIPTION	PACK.
9060026	SD-003	Outdoor plastic cover for FD/FP/FI taps and splitters	4
9060060	SD-100	Mast outdoor plastic cover for FD/FP/FI taps and splitters	1
9130167	DU-900	Frame for 9 splitters or taps, for multiswitches	1
9120011	RS-275	75Ω load, F connector	10

TV / SAT outlets



9070124 | **PT-420**



9070126 | **PT-620**

/ User access points, 5-2400 MHz (2-input splitters, one input connected to a 75 Ω load)

CODE	TYPE	DESCRIPTION	PACK.
9070122	PT-220	2 outputs	12
9070123	PT-320	3 outputs	12
9070124	PT-420	4 outputs	12
9070125	PT-520	5 outputs	12
9070126	PT-620	6 outputs	12
9070127	PT-820	8 outputs	12



9070062 | **BS-100**



9070087 | **BS-101**



9070086 | **BS-102**

/ Outlets

TV/SAT, 5-2400 MHz

CODE	TYPE	DESCRIPTION	PACK.
9070062	BS-100	Final, 2 connectors: male IEC + female F, 1dB	24
9070087	BS-101	BS-100 outlet with EM-202 cover plate	1
9070073	BS-112	Final, 2 connectors: male IEC + female IEC, 1dB	24
9070105	BS-113	Final, 2 connectors: male IEC + female IEC, 1dB, without clamps	90
9070068	BS-110	Final, 2 connectors: male IEC + female IEC, 5dB	24
9070086	BS-102	Final, 3 connectors: male IEC + female IEC + female F, with TV/R/SAT cover plate	1
9070070	BS-210	Intermediate, 2 connectors: male IEC + female IEC, 12dB	24
9070071	BS-510	Intermediate, 2 connectors: male IEC + female IEC, 15dB	24

CASCADABLE TV/SAT, 5-2400 MHZ

CODE	TYPE	DESCRIPTION	PACK.
9070004	BS-220	Final, 11.5dB	24
9070005	BS-420	Intermediate, levels 2 to 6, 17.5dB	24
9070006	BS-620	Intermediate, levels 7 to 10, 22.5dB	24

TV, UP TO 862 MHZ

CODE	TYPE	DESCRIPTION	PACK.
9070039	BM-111	Final, UHF 0.5dB, VHF 1.5dB	24
9070037	BM-100	Final, UHF 3,0dB, VHF 4,0dB	24
9070038	BM-101	Final, UHF 5.5dB, VHF 6,0dB	24
9070040	BM-200	Intermediate, UHF 8dB, VHF 8dB	24
9070041	BM-500	Intermediate, UHF 10.5dB, VHF 11dB	24
9070042	BM-700	Intermediate, UHF 15.5dB, VHF 16dB	24

CATV, UP TO 1000 MHZ

CODE	TYPE	DESCRIPTION	PACK.
9070043	BC-100	Final, 1,0dB	24
9070044	BC-200	Intermediate, 10dB	24



9070021 | **EM-201**



9070075 | **SB-003**

/ Cover plates and accessories

CODE	TYPE	DESCRIPTION	PACK.
9070021	EM-201	TV-R/TV-R cover plate for BS outlets (except BS-100 and BS-112)	24
9070025	EM-211	Custom TV-R/TV-R cover plate for BS outlets (except BS-100 and BS-112)	72
9070022	EM-202	TV-R/TV-R cover plate for BS-100 and BS-112 outlets	24
9070027	EM-212	Custom TV-R/TV-R cover plate for BS-100 and BS-112 outlets	72
9070020	EM-200	TV/R cover plate for BM and BC outlets	24
9070024	EM-210	Custom TV/R cover plate for BM and BC outlets	72
9070075	SB-003	Accessory for mounting outlets on a surface	24

Rejection filters, preamps and attenuators



9090046 | **RB-900**

/ Rejection filters

CODE	TYPE	DESCRIPTION	PACK.
9090042	RB-619	LTE800 rejection filter, bandpass up to C60 (790 MHz), 60dB	8
9090046	RB-900	LTE700 rejection filter, bandpass up to C48 (694 MHz), 60dB	8



9090029 | **PR-310**



9090033 | **AV-315**

/ Preamplifiers and attenuators, F connectors

CODE	TYPE	DESCRIPTION	PACK.
9090028	PR-200	Preamplifier, UHF 14 dB, 24 Vdc remote feed	1
9090044	PR-201	Preamplifier, UHF 14 dB, 24 Vdc remote feed via faston	1
9090029	PR-310	Preamplifier, TV-SAT 10dB, 13/18 Vdc remote feed	1
9090031	AV-305	Variable attenuator TV-SAT 18dB	1
9090033	AV-315	Variable attenuator TV-SAT 18dB with DC path	1

MU multiswitches



9130024 | **MU-641**



9130050 | **CN-611**



9090038 | **BL-300**

/ with return path

FINAL MULTISWITCHES

CODE	TYPE	DESCRIPTION	PACK.
9130014	MU-310	4 polarities + terrestrial, 8 outputs	1
9130015	MU-610	4 polarities + terrestrial, 16 outputs	1
9130017	MU-330	8 polarities + terrestrial, 8 outputs	1
9130018	MU-630	8 polarities + terrestrial, 16 outputs	1

CASCADABLE MULTISWITCHES

CODE	TYPE	DESCRIPTION	PACK.
9130033	MU-320	4 polarities + terrestrial, 8 outputs	1
9130020	MU-321	4 polarities + terrestrial, 8 outputs, active	1
9130034	MU-620	4 polarities + terrestrial, 16 outputs	1
9130021	MU-621	4 polarities + terrestrial, 16 outputs, active	1
9130036	MU-340	8 polarities + terrestrial, 8 outputs	1
9130023	MU-341	8 polarities + terrestrial, 8 outputs, active	1
9130037	MU-640	8 polarities + terrestrial, 16 outputs	1
9130024	MU-641	8 polarities + terrestrial, 16 outputs, active	1

/ Amplifiers, power supplies and accessories

CODE	TYPE	DESCRIPTION	PACK.
9130168	AU-621	Amplifier, 4 polarities, 23 dB, 119 dBμV	9
9130041	AU-620	Amplifier, 4 polarities, 43 dB, 119 dBμV	9
9130169	AU-641	Amplifier, 8 polarities, 23 dB, 119 dBμV	9
9130042	AU-640	Amplifier, 8 polarities, 43 dB, 119 dBμV	9
9130057	FU-513	Power supply for AU-6XX amplifiers or MU-xxx active multiswitches, 7,5 Vdc/3840 mA	28
9130054	FU-612	Power supply to feed LNBs, 18 Vdc/2000 mA	28
9130050	CN-611	DiSEqC switch for 16 polarities	36
9080019	RC-110	75Ω isolated load, F connector	10
9090038	BL-300	Current blocker (5-2400 MHz)	1
9130059	DI-213	2-way splitter, DC path from input to outputs	6
9130060	DI-413	4-way splitter, DC path from input to outputs	6
9130062	DU-240	Frame equipped with 9x DI-213, for multiswitches	1
9130167	DU-900	Frame for 9 splitters or taps, for multiswitches	1
9090033	AV-315	Variable attenuator TV-SAT 18dB with DC path	1
9090029	PR-310	Preamplifier, TV-SAT 10dB, 13/18 Vdc remote feed	1

MB / ML multiswitches



9130096 | **ML-204**



9130116 | **ML-304**



9130188 | **MB-112**



9130081 | **MB-304**

/ Cascadable multiswitches, active terrestrial

		INPUTS							
		5		9		13		17	
		CODE	TYPE	CODE	TYPE	CODE	TYPE	CODE	TYPE
OUTPUTS	8	9130149	ML-102	9130094	ML-202	9130114	ML-302	9130134	ML-402
	12	9130150	ML-103	9130095	ML-203	9130115	ML-303	9130135	ML-403
	16	9130151	ML-104	9130096	ML-204	9130116	ML-304	9130136	ML-404
	20	9130152	ML-105	9130097	ML-205	9130117	ML-305	9130137	ML-405
	24	9130153	ML-106	9130098	ML-206	9130118	ML-306	9130138	ML-406
	32	9130159	ML-108	9130171	ML-208	9130173	ML-308	9130175	ML-408

/ Final multiswitches, active terrestrial

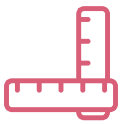
		INPUTS									
		5		5 (UK)		9		13		17	
		CODE	TYPE	CODE	TYPE	CODE	TYPE	CODE	TYPE	CODE	TYPE
OUTPUTS	8	9130188	MB-112	9130144	MB-102	9130069	MB-202	9130079	MB-302	9130089	MB-402
	12	9130189	MB-113	9130145	MB-103	9130070	MB-203	9130080	MB-303	9130090	MB-403
	16	9130190	MB-114	9130146	MB-104	9130071	MB-204	9130081	MB-304	9130091	MB-404
	20	9130191	MB-115	9130147	MB-105	9130072	MB-205	9130082	MB-305	9130092	MB-405
	24	9130192	MB-116	9130148	MB-106	9130073	MB-206	9130083	MB-306	9130093	MB-406
	32	9130193	MB-118	9130160	MB-108	9130170	MB-208	9130172	MB-308	9130174	MB-408

/ Power supplies and accessories

CODE	TYPE	DESCRIPTION	PACK.
D913001	AU-0630	Amplifier, 8 polarities + terrestrial, 18dB	1
D913004	AU-0680	Amplifier, 16 polarities + terrestrial, 30dB	1
9130163	FU-304	Spare power supply for 4/8-polarity MB multiswitches	1
9130161	FU-704	Spare power supply for 12/16-polarity MB multiswitches	1
9080019	RC-110	75Ω isolated load, F connector	10
9090038	BL-300	Current blocker (5-2400 MHz)	1
9090033	AV-315	Variable attenuator TV-SAT 18dB with DC path	1
9090029	PR-310	Preamplifier, TV-SAT 10dB, 13/18 Vdc remote feed	1

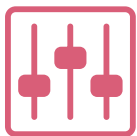
Distribution in coaxial cable

Mont Blanc



Compact
size

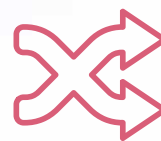
Page 19



Automatic
Gain
Control



Intuitive: with
display and 3
programming
push-buttons



32 high-
selectivity
digital
filters



LTE700
filters in
the UHF
inputs

Mont Blanc digital programmable
amplifier: a compact headend
with a lion's heart

DISTRIBUTION

IN OTHER MEDIA

SMATV distribution in optical fiber



9160048 | **OT-412**



9160084 | **OR-418**



9160081 | **OR-512**

/ TV-SAT distribution in fiber optics

CODE	TYPE	DESCRIPTION	PACK.
9160087	OT-512	10mW TV-SAT optical transmitter with LNB feed, compatible with FA-512	1
9160048	OT-412	TV-SAT optical transmitter with LNB feed	1
9120255	FA-512	96W power supply for OT-512 optical transmitters	1
9120245	FA-410	50W power supply for OT-4x2 optical transmitters	1
9120234	SP-243	Frame for 1 power supply and 6 modules	1
9160084	OR-418	TV-SAT optical receiver for OT optical transmitters	1
9160077	OAT-306	Optical attenuator, 6dB, SC/APC connectors	1
9160078	OS-302	2-way optical splitter, SC/APC	1
9160079	OS-304	4-way optical splitter, SC/APC	1
9160080	OS-308	8-way optical splitter, SC/APC	1

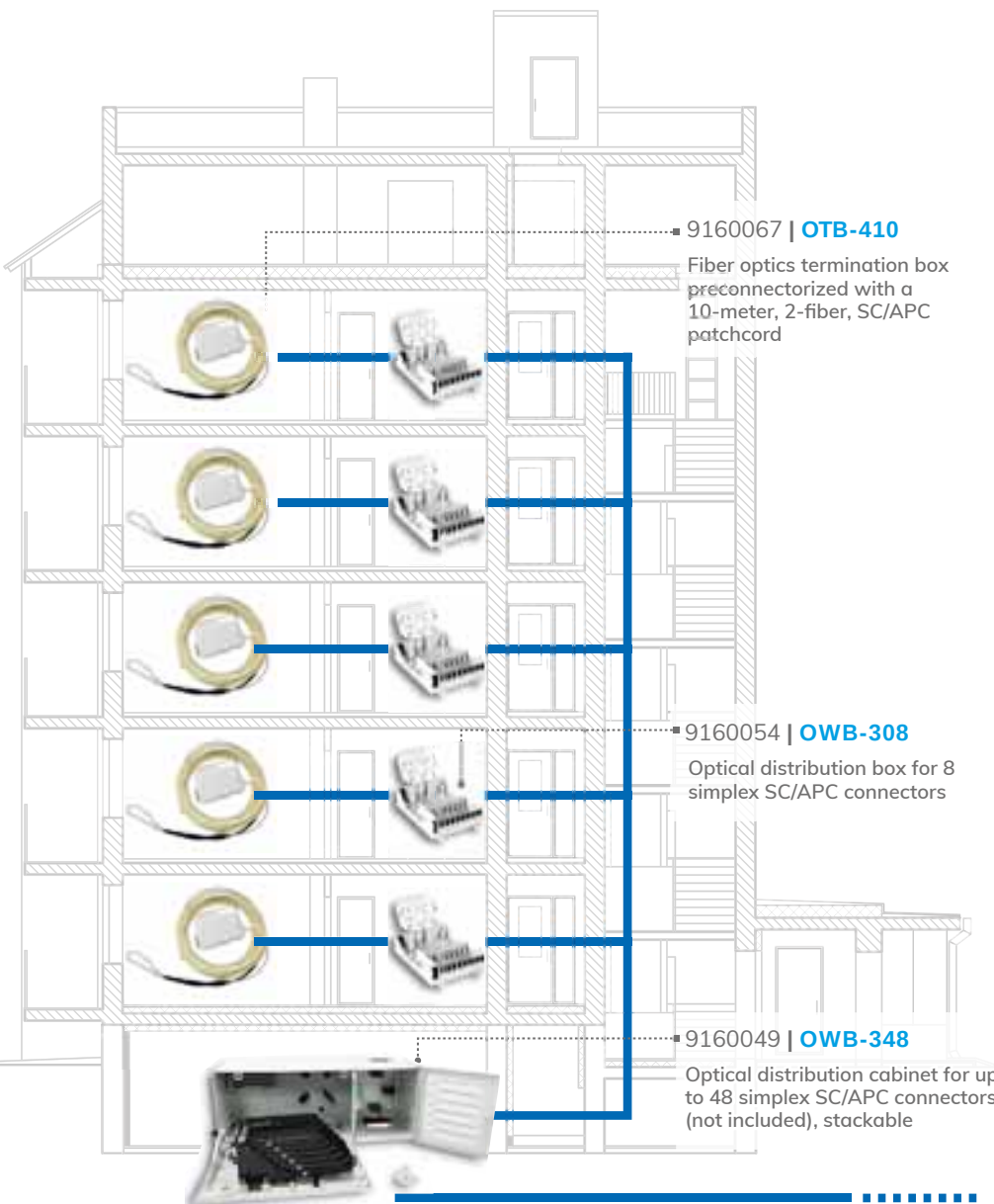
/ SAT distribution in fiber optic with optical LNB

CODE	TYPE	DESCRIPTION	PACK.
9160081	OR-512	Optical receiver TV-SAT Quatro (88-2150 MHz) 1100 to 1650 nm for single-mode fibre optic	1
9160037	PSU-010	Power supply for OLN-604 optical LNB or OR-511 receiver, 20Vdc/1.2A	1
9160042	OAT-105	Optical attenuator, 5dB, FC/PC connectors	1
9160043	OPC-203	Single mode fiber patchcord, 3m	1
9160044	OPC-204	Single mode fiber patchcord, 15m	1
9160045	OPC-205	Single mode fiber patchcord, 25m	1
9160046	OPC-206	Single mode fiber patchcord, 45m	1
9160033	OS-122	2-way optical splitter, FC/PC	1
9160034	OS-123	3-way optical splitter, FC/PC	1
9160035	OS-124	4-way optical splitter, FC/PC	1
9160036	OS-128	8-way optical splitter, FC/PC	1



COMMON TELECOMMUNICATIONS INFRASTRUCTURES

INTEGRAL SOLUTION FOR FIBER OPTIC INSTALLATIONS



NEW

Renewed fiber optic
catalogue



**SAVE TIME
AND MONEY**

Preconnectorized
termination-boxes to
streamline installations



**FULL
RANGE**

Premium products
and accessories

Distribution in fiber optics



9160050 | **ODP-348**



9160054 | **OWB-308**



9160049 | **OWB-348**

/ Distribution cabinets and patch panels

CODE	TYPE	DESCRIPTION	PACK.
9160049	OWB-348	Optical distribution cabinet for up to 48 simplex SC/APC connectors (not included), stackable	1
9160050	ODP-348	Optical patch panel, 24 duplex SC/APC connectors (included), 19"	1
9160051	ODP-312	Optical patch panel, 12 simplex SC/APC connectors (included), 19"	1
9300057	RWS-003	Wall support for 19" rack, 3U, galvanized steel	1
9160053	OAD-301	Simplex SC/APC adaptor for OWB-348 distribution cabinet	25
9160107	OAD-900	Adapter for SC/APC connector for RJ45 outlet Keystone type	25
9160054	OWB-308	Optical distribution box for 8 simplex SC/APC connectors	1
9160086	OWB-312	Optical distribution box for 12 simplex SC/APC connectors	1

/ Cables and pigtails

CODE	TYPE	DESCRIPTION	PACK.
9160055	FOC-302	Indoor drop cable, 2xFO	500
9160082	FOC-344	Indoor distribution cable, 16xFO (4x4)	cut
9160056	FOC-364	Indoor distribution cable, 24xFO (6x4)	cut
9160083	FOC-384	Indoor distribution cable, 32xFO (8x4)	cut
9160057	FOC-368	Indoor distribution cable, 48xFO (6x8)	cut
9160096	FOC-402	Outdoor drop cable, 2xFO	500
9160085	FOC-408	Outdoor distribution cable, 8xFO	100
9160058	OPT-301	Pigtail, simplex SC/APC connector, 1 meter	1
9160098	OPT-305	Pigtail, simplex SC/APC connector, 5 meters	1
9160099	OPT-310	Pigtail, simplex SC/APC connector, 10 meters	1
9160100	OPT-315	Pigtail, simplex SC/APC connector, 15 meters	1
9160101	OPT-320	Pigtail, simplex SC/APC connector, 20 meters	1
9160102	OPC-405	Patchcord, simplex SC/APC connectors, 5 meters	1
9160103	OPC-410	Patchcord, simplex SC/APC connectors, 10 meters	1
9160104	OPC-415	Patchcord, simplex SC/APC connectors, 15 meters	1
9160105	OPC-420	Patchcord, simplex SC/APC connectors, 20 meters	1



9160059 | OTB-300



9160060 | OTB-310

/ Termination boxes

CODE	TYPE	DESCRIPTION	PACK.
9160106	OTB-200	Fiber optics termination box, 2 simplex SC/APC connectors	1
9160059	OTB-300	Fiber optics termination box, 2 simplex SC/APC connectors, includes 2 pigtails	1
9160060	OTB-310	Fiber optics termination box preconnectorized with a 10-meter, 2-fiber, SC/APC pigtail	1
9160061	OTB-315	Fiber optics termination box preconnectorized with a 15-meter, 2-fiber, SC/APC pigtail	1
9160062	OTB-320	Fiber optics termination box preconnectorized with a 20-meter, 2-fiber, SC/APC pigtail	1
9160063	OTB-325	Fiber optics termination box preconnectorized with a 25-meter, 2-fiber, SC/APC pigtail	1
9160064	OTB-330	Fiber optics termination box preconnectorized with a 30-meter, 2-fiber, SC/APC pigtail	1
9160065	OTB-335	Fiber optics termination box preconnectorized with a 35-meter, 2-fiber, SC/APC pigtail	1
9160066	OTB-340	Fiber optics termination box preconnectorized with a 40-meter, 2-fiber, SC/APC pigtail	1
9160088	OTB-345	Fiber optics termination box preconnectorized with a 45-meter, 2-fiber, SC/APC pigtail	1
9160089	OTB-350	Fiber optics termination box preconnectorized with a 50-meter, 2-fiber, SC/APC pigtail	1
9160090	OTB-355	Fiber optics termination box preconnectorized with a 55-meter, 2-fiber, SC/APC pigtail	1
9160091	OTB-360	Fiber optics termination box preconnectorized with a 60-meter, 2-fiber, SC/APC pigtail	1
9160067	OTB-410	Fiber optics termination box preconnectorized with a 10-meter, 2-fiber, SC/APC patchcord	1
9160068	OTB-415	Fiber optics termination box preconnectorized with a 15-meter, 2-fiber, SC/APC patchcord	1
9160069	OTB-420	Fiber optics termination box preconnectorized with a 20-meter, 2-fiber, SC/APC patchcord	1
9160070	OTB-425	Fiber optics termination box preconnectorized with a 25-meter, 2-fiber, SC/APC patchcord	1
9160071	OTB-430	Fiber optics termination box preconnectorized with a 30-meter, 2-fiber, SC/APC patchcord	1
9160072	OTB-435	Fiber optics termination box preconnectorized with a 35-meter, 2-fiber, SC/APC patchcord	1
9160073	OTB-440	Fiber optics termination box preconnectorized with a 40-meter, 2-fiber, SC/APC patchcord	1
9160092	OTB-445	Fiber optics termination box preconnectorized with a 45-meter, 2-fiber, SC/APC patchcord	1
9160093	OTB-450	Fiber optics termination box preconnectorized with a 50-meter, 2-fiber, SC/APC patchcord	1
9160094	OTB-455	Fiber optics termination box preconnectorized with a 55-meter, 2-fiber, SC/APC patchcord	1
9160095	OTB-460	Fiber optics termination box preconnectorized with a 60-meter, 2-fiber, SC/APC patchcord	1

/ Outlets, accesories and tools

CODE	TYPE	DESCRIPTION	PACK.
9160074	OFS-345	Fiber optic fusion splice thermoretractable protector sleeve, 45 mm	1
9160075	OFS-360	Fiber optic fusion splice thermoretractable protector sleeve, 60 mm	1
9160076	OCN-300	Self-installable SC/APC connector, 900 µm	1

CAT6 distribution

/ Patch panels

CODE	TYPE	DESCRIPTION	PACK.
9300057	RWS-003	Wall support for 19" rack, 3U, galvanized steel	1

/ Cables, pigtails and connectors

CODE	TYPE	DESCRIPTION	PACK.
9300059	TPC-101	CAT6 UTP patchcord with RJ45 connectors, 1 meter	1
9300060	TPC-103	CAT6 UTP patchcord with RJ45 connectors, 3 meters	1

SIGNAL PROCESSING

himalaya headends and accessories



9120253 | **TM-112**



9120259 | **TM-202**

/ himalaya headends

CODE	TYPE	DESCRIPTION	PACK.
9120251	TM-101	1xDVB-S/S2/T/T2 to 1xDVB-T/C transmodulator	1
9120252	TM-111	1xDVB-S/S2/T/T2 to 1xDVB-T/C transmodulator, with Common Interface	1
9120254	TM-102	2xDVB-S/S2/T/T2 to 1xDVB-T/C transmodulator	1
9120253	TM-112	2xDVB-S/S2/T/T2 to 1xDVB-T/C transmodulator, with Common Interface	1
9120259	TM-202	2xDVB-S/S2/T/T2 to 2xDVB-T/C transmodulator	1
9120260	TMS-204	4xDVB-S/S2 to 2xDVB-T/C transmodulator, multistream compatible	1
9120261	TMS-214	4xDVB-S/S2 to 2xDVB-T/C transmodulator, multistream compatible, with Common Interface	1



9120256 | **PA-740**



9120255 | **FA-512**

/ himalaya accessories

CODE	TYPE	DESCRIPTION	PACK.
9120256	PA-740	Broadband amplifier, 120 dBμV	1
9120255	FA-512	Power supply, 96W	1
9120233	SP-244	Frame for 1 power supply and 9 TM/PA modules	1
9120257	SP-245	Frame for 2 power supplies and 8 TM/PA modules	1



himalaya

**WE REACH THE SUMMIT TO
OFFER YOU THE BEST SIGNAL**

New Range of Professional Headends



VERSATILITY

All himalaya modules are compatible with DVB-S/S2 and DVB-T/T2 inputs and with DVB-T or DVB-C outputs.



COMFORT

himalaya modules can be configured via wifi from a smartphone, tablet or computer thanks to their new, responsive web interface, without installing any software.



COST SAVINGS

Thanks to remote configuration and redundant power supplies, maintenance trips are kept to a minimum.



Modulators and transmodulators for professional headends



9120213 | **TT-312**



9120201 | **TT-411**

/ DVB-S/S2 to DVB-T (COFDM) transmodulators

CODE	TYPE	DESCRIPTION	PACK.
9120213	TT-312	1 input connector, 1 tuner, 2 output channels, DiSEqC compatible, 1 CI slot	1

/ Channel processors

CODE	TYPE	DESCRIPTION	PACK.
9050174	PC-526	UHF and VHF channel processor, 8 MHz	1

/ Modulators

ANALOGUE A/V

CODE	TYPE	DESCRIPTION	PACK.
9120239	MS-569	1 A/V input, 1 analogue output, multinorm (mono)	1
9120238	MS-571	1 A/V input, 1 analogue output, BG norm (estéreo)	1
9120109	MS-543	1 A/V input, 1 analogue output, I norm (mono)	1

/ Power supplies and accessories

CODE	TYPE	DESCRIPTION	PACK.
9120245	FA-410	50W power supply (230/240 Vac)	1
9120249	FA-411	50W power supply (110 Vac)	1
9120105	LS-207	Spare flat power cable for FA-410/FA-411 power supplies	1
9120173	LS-217	Spare flat power cable for FA-312 power supply	1
9120124	LA-102	Voltage adaptor to power ZF-712 modules from FA-312/410/411 power supplies	1



9120244 | **PA-721**

/ Amplifiers and active multiplexer

CODE	TYPE	DESCRIPTION	PACK.
9120244	PA-721	Broadband amplifier, 120 dBμV, 44 dB	1
9120126	CB-400	10 inputs amplifier and multiplexer, 118 dBμV, 29 dB gain	1

/ Optical transmitters and receivers

CODE	TYPE	DESCRIPTION	PACK.
9160087	OT-512	10mW TV-SAT optical transmitter with LNB feed, compatible with FA-512	1
9160048	OT-412	4mW TV-SAT optical transmitter with LNB feed, compatible with FA-410	1
9160084	OR-418	TV-SAT optical receiver for OT optical transmitters	1

/ Frames, cabinets and fans

CODE	TYPE	DESCRIPTION	PACK.
9120234	SP-243	Frame for 1 power supply and 6 TT/TQ/PA modules	1
9120233	SP-244	Frame for 1 power supply and 9 TT/TQ/PA modules	1
9120130	SP-226	Frame for 1 power supply and 11 DMH/DM/MS/PA modules	1
9120131	CP-226	Cabinet for SP-244/SP-226 frames	1
9120132	CP-426	Double cabinet for SP-244/SP-226 frames	1
9050043	VE-500	Fan for CP-226/CP426 cabinets	1
9120237	SP-743	Frame for 1 power supply and 7 TT/TQ/PA modules in 19" racks	1
9120136	SP-725	Frame for 1 power supply and 11 DMH/DM/MS/PA modules in 19" racks	1



9120232 | **PU-102**



9120144 | **PS-011**

/ Programmers, multiplexing bridges and cables

CODE	TYPE	DESCRIPTION	PACK.
9120232	PU-102	Multiplexing bridge for TT/TQ/PA headends	12
9120064	PU-101	Multiplexing bridge for DMH/DM/MS/PA headends	12
9120144	PS-011	Wireless programmer with TFT screen	1
9120094	CD-113	MiniDIN to stereo RCA cable	1

DTT receivers



9050180 | **RT-104**

/ DTT receivers

CODE	TYPE	DESCRIPTION	PACK.
9050180	RT-104	HD DVB-T/T2 set-top box, HEVC compatible	1

Standalone modulators



9510072 | **DMH-142**



9510065 | **MD-410**

/ Standalone modulators

CODE	TYPE	DESCRIPTION	PACK.
9510072	DMH-142	HDMI to DVB-T modulator	1
9510064	MD-310	Analogue modulator, A/V to BIII, multinorm	1
9510065	MD-410	Analogue modulator, A/V to UHF, multinorm	1
9510067	MD-531	Analogue modulator, A/V to 47-862 MHz, BG norm	1

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APPENDIX

Lists of products

/ List by code

	CODE	TYPE	PACK.	PAGE
900	9000005	FM-200	64	6
	9000040	FM-102	2/128	6
	9000042	BU-269	76	5
	9000043	BU-569	27	5
	9000063	BT-751	90	6
	9000071	BT-151	2/180	6
	9000077	BU-115	216	5
	9000084	BU-116	144	5
	9000088	MX-076	27	5
	9000105	BU-267	74	4
	9000107	NEO-046	40	5
	9000109	MX-047	38	4
	9000110	BU-117	144	4
	9000111	BU-457	74	4
	9000112	GA-457	12	4
	9000185	NEO-085	30	5
	9000187	NEO-087	24	4
	9000189	NEO-047	32	4
	9000197	AP-367	48	4
	9000198	GAN-267	10	4
	9000199	GA-047	10	4
	9000200	NEO-042	32	4
	9000201	NEO-082	24	4
	9000202	BU-452	52	4
	9000203	GA-452	12	4
901	9010008	BR-401	100	9
	9010009	BR-411	100	9
	9010013	BR-421	100	9
	9010018	BR-407	100	9
	9010019	SI-412	1	4
902	9020015	ME-214	6	25
	9020017	MM-303	24	9
	9020019	ME-213	6	25
	9020040	MM-207	24	9

	CODE	TYPE	PACK.	PAGE
	9020041	MM-200	24	9
	9020042	MM-307	24	9
	9020045	MM-214	24	9
	9020048	FR-619	24	9
	9020052	FR-900	24	9
903	9030048	AM-309	24	12
	9030086	AL-100	24	12
	9030087	AL-105	24	12
	9030103	AL-110	24	12
	9030119	AL-125	24	12
	9030142	AM-246	24	11
	9030163	AM-165	24	11
	9030167	BO-165	24	11
	9030173	BO-366	24	11
	9030176	AM-274	24	11
	9030177	AM-374	24	11
	9030185	AM-183	24	10
	9030186	AM-187	24	10
	9030188	AM-177	24	11
	9030190	AM-913	24	11
	9030191	BO-913	24	11
	9030192	AM-190	24	10
	9030193	AM-195	24	10
	9030194	AM-292	24	10
	9030195	AM-296	24	10
	9030196	BO-190	24	10
	9030197	BO-195	24	10
	9030198	BO-292	24	10
	9030199	BO-296	24	10
	9030200	AM-387	24	10
	9030201	AM-397	24	10
	9030202	BO-397	24	10
	9030204	AM-497	24	10
	9030205	AM-487	24	10

904

CODE	TYPE	PACK.	PAGE
9030206	BO-497	24	10
9030207	AM-396	24	10
9030208	BO-396	24	10
9030209	AM-915	24	10
9030210	BO-915	24	10
9030211	BO-696	24	12
9030212	AM-696	24	12
9030213	AL-245	24	12
9040003	CA-730	8	16
9040011	CA-311	24	15
9040014	CA-310	24	15
9040015	DA-720	8	18
9040032	CF-112	8	18
9040039	CA-312	24	15
9040050	AI-200	24	13
9040051	AI-221	24	13
9040052	AI-223	24	13
9040053	AI-100	24	13
9040056	AI-131	24	13
9040057	AI-133	24	13
9040060	CA-210	24	15
9040061	CA-215	24	15
9040062	AI-108	24	13
9040063	AI-400	24	13
9040065	DA-520	8	18
9040073	CA-220	24	15
9040075	AI-414	24	13
9040077	CA-720	8	16
9040103	CA-710	8	16
9040116	CA-340	24	15
9040117	CA-342	24	15
9040120	CA-440	24	16
9040121	CA-441	24	16
9040123	AI-233	24	13
9040125	AI-240	24	13
9040129	AI-270	24	13
9040130	AI-231	24	13
9040132	CA-662	10	16
9040133	CA-612	10	16
9040134	CA-613	10	16
9040136	CA-611	10	16
9040141	CA-360	24	15
9040142	CA-770	8	16
9040143	CA-671	9	16
9040144	CA-672	9	16

905

CODE	TYPE	PACK.	PAGE
9040145	CAD-704	6	19
9040146	CA-362	24	15
9040147	CA-361	24	15
9040148	CA-661	10	16
9040149	CA-663	10	16
9040150	CA-320	24	15
9040151	CA-321	24	15
9040152	CA-370	24	15
9040153	CA-371	24	15
9040154	CAD-713	1	19
9040155	DA-601	10	18
9040156	DA-603	10	18
9040157	DA-611	10	18
9040158	DA-613	10	18
9040159	CAD-703	5	19
9040160	DA-741	8	18
9040161	DA-743	8	18
9040250	FF-200	11	16, 18
9040251	FF-300	1	15
9040252	FF-415	1	19
9040253	FF-420	1	19
9040254	AI-201	-	13
9040255	AI-271	-	13
9050004	RM-075	10	21, 23
9050022	ZG-431	40	20
9050023	ZG-412	40	20
9050024	ZG-413	40	20
9050026	ZG-414	40	20
9050035	ZG-211	40	20
9050043	VE-500	1	20, 39
9050052	ZP-002	10	21
9050074	ZG-611	40	20
9050083	AS-125	28	20
9050092	ZP-431	40	20
9050099	SP-122	1	20
9050100	SP-126	1	20
9050102	PZ-010	10	21
9050104	LT-107	1	21
9050106	ZG-212	40	20
9050116	ZF-712	40	19, 20
9050119	PZ-020	10	21
9050120	LT-102	1	21
9050121	LT-112	1	21
9050124	CP-126	1	20
9050143	SP-123	1	20

	CODE	TYPE	PACK.	PAGE
	9050174	PC-526	1	38
	9050178	CP-900	1	20
	9050180	RT-104	1	40
906	9060026	SD-003	4	25
	9060031	FP-211	6	25
	9060032	FP-217	6	25
	9060033	FD-213	6	25
	9060034	FD-219	6	25
	9060035	FD-225	6	25
	9060036	FI-243	6	24
	9060037	FI-473	6	24
	9060038	FD-413	6	25
	9060039	FD-419	6	25
	9060040	FD-425	6	25
	9060043	FP-223	6	25
	9060044	FP-226	6	25
	9060046	FP-414	6	25
	9060047	FP-420	6	25
	9060048	FP-426	6	25
	9060053	FD-210	6	25
	9060054	FD-410	6	25
	9060055	FI-244	6	24
	9060056	FI-474	6	24
	9060060	SD-100	1	25
	9060063	DE-201	1	25
	9060064	DE-203	1	25
	9060065	DE-205	12	25
	9060066	DE-207	12	25
	9060068	DE-401	1	25
	9060069	DE-403	12	25
	9060070	DE-405	12	25
	9060071	DE-407	12	25
	9060073	DE-603	12	25
	9060074	DE-605	12	25
	9060075	DE-607	12	25
	9060079	FI-594	6	24
	9060097	DI-203	12	24
	9060098	DI-303	12	24
	9060099	DI-403	12	24
	9060100	DI-603	12	24
	9060101	DI-803	12	24
907	9070004	BS-220	24	27
	9070005	BS-420	24	27
	9070006	BS-620	24	27
	9070020	EM-200	24	27

	CODE	TYPE	PACK.	PAGE
	9070021	EM-201	24	27
	9070022	EM-202	24	27
	9070024	EM-210	72	27
	9070025	EM-211	72	27
	9070027	EM-212	72	27
	9070037	BM-100	24	27
	9070038	BM-101	24	27
	9070039	BM-111	24	27
	9070040	BM-200	24	27
	9070041	BM-500	24	27
	9070042	BM-700	24	27
	9070043	BC-100	24	27
	9070044	BC-200	24	27
	9070062	BS-100	24	26
	9070068	BS-110	24	26
	9070070	BS-210	24	26
	9070071	BS-510	24	26
	9070073	BS-112	24	26
	9070075	SB-003	24	27
	9070086	BS-102	1	26
	9070087	BS-101	1	26
	9070105	BS-113	90	26
	9070122	PT-220	12	26
	9070123	PT-320	12	26
	9070124	PT-420	12	26
	9070125	PT-520	12	26
	9070126	PT-620	12	26
	9070127	PT-820	12	26
908	9080000	MC-095	25	23
	9080001	HC-095	25	23
	9080004	EM-101	25	24
	9080010	RM-095	25	23
	9080011	RH-095	25	23
	9080012	EP-111	10	23
	9080013	EP-212	10	23
	9080014	MC-104	50	23
	9080015	MC-204	50	23
	9080016	HE-200	1	24
	9080017	HE-000	1	24
	9080018	HE-100	1	24
	9080019	RC-110	10	21, 23, 29, 30
	9080020	EP-313	10	23
	9080021	HE-001	1	24
	9080022	HE-201	1	24

	CODE	TYPE	PACK.	PAGE
	9080023	MC-302	100	23
	9080025	MC-000	10	23
	9080026	EP-311	100	23
	9080028	HE-002	1	24
	9080029	HC-000	10	23
	9080030	MC-304	100	23
	9080033	MC-202	25	23
	9080034	MC-102	100	23
909	9090016	DV-102	1	24
	9090017	MD-104	1	25
	9090028	PR-200	1	28
	9090029	PR-310	1	28, 29, 30
	9090031	AV-305	1	28
	9090033	AV-315	1	28, 29, 30
	9090038	BL-300	1	29, 30
	9090042	RB-619	8	28
	9090043	IM-123	1	21
	9090044	PR-201	1	28
	9090046	RB-900	8	28
910	9100019	CE-741	500	22
	9100021	CE-753	100	22
	9100050	GC-007	100	24
	9100056	CE-743	100	22
	9100057	CL-201	250	22
	9100058	CE-754	100	22
	9100059	CE-755	500	22
	9100060	CE-860	100	22
	9100061	CE-756	100	22
	9100062	CE-757	500	22
	9100063	CE-150	100	22
	9100064	CE-140	100	22
	9100068	CE-763	100	22
911	9110000	DAM-504	1	18
912	9120011	RS-275	10	23, 25
	9120027	LF-001	3	24
	9120030	PF-230	24	6
	9120039	CM-004	100	23
	9120064	PU-101	12	39
	9120094	CD-113	1	39
	9120105	LS-207	1	38
	9120109	MS-543	1	38
	9120122	PF-431	15	6
	9120124	LA-102	1	38
	9120126	CB-400	1	39
	9120130	SP-226	1	39

	CODE	TYPE	PACK.	PAGE
	9120131	CP-226	1	39
	9120132	CP-426	1	39
	9120136	SP-725	1	39
	9120144	PS-011	1	21, 39
	9120156	PF-220	15	6
	9120157	PF-223	15	6
	9120158	PF-224	15	6
	9120160	PF-420	12	6
	9120161	PF-423	12	6
	9120162	PF-424	12	6
	9120173	LS-217	1	38
	9120213	TT-312	1	38
	9120216	PF-620	8	6
	9120220	PF-742	100	6
	9120232	PU-102	12	39
	9120233	SP-244	1	37, 39
	9120234	SP-243	1	32, 39
	9120237	SP-743	1	39
	9120238	MS-571	1	38
	9120239	MS-569	1	38
	9120244	PA-721	1	39
	9120245	FA-410	1	32, 38
	9120249	FA-411	1	38
	9120251	TM-101	1	37
	9120252	TM-111	1	37
	9120253	TM-112	1	37
	9120254	TM-102	1	37
	9120255	FA-512	1	32, 37
	9120256	PA-740	1	37
	9120257	SP-245	1	37
	9120259	TM-202	1	37
	9120260	TMS-204	1	37
	9120261	TMS-214	1	37
	9120262	UE-005	1	7
	9120263	UE-203	1	7
	9120264	UE-301	1	7
	9120265	UE-404	1	7
913	9130014	MU-310	1	29
	9130015	MU-610	1	29
	9130017	MU-330	1	29
	9130018	MU-630	1	29
	9130020	MU-321	1	29
	9130021	MU-621	1	29
	9130023	MU-341	1	29
	9130024	MU-641	1	29

CODE	TYPE	PACK.	PAGE
9130033	MU-320	1	29
9130034	MU-620	1	29
9130036	MU-340	1	29
9130037	MU-640	1	29
9130041	AU-620	9	21, 29
9130042	AU-640	9	21, 29
9130050	CN-611	36	29
9130054	FU-612	28	21, 29
9130057	FU-513	28	21, 29
9130059	DI-213	6	24, 29
9130060	DI-413	6	24, 29
9130062	DU-240	1	24, 29
9130069	MB-202	1	30
9130070	MB-203	1	30
9130071	MB-204	1	30
9130072	MB-205	1	30
9130073	MB-206	1	30
9130079	MB-302	1	30
9130080	MB-303	1	30
9130081	MB-304	1	30
9130082	MB-305	1	30
9130083	MB-306	1	30
9130089	MB-402	1	30
9130090	MB-403	1	30
9130091	MB-404	1	30
9130092	MB-405	1	30
9130093	MB-406	1	30
9130094	ML-202	1	30
9130095	ML-203	1	30
9130096	ML-204	1	30
9130097	ML-205	1	30
9130098	ML-206	1	30
9130114	ML-302	1	30
9130115	ML-303	1	30
9130116	ML-304	1	30
9130117	ML-305	1	30
9130118	ML-306	1	30
9130134	ML-402	1	30
9130135	ML-403	1	30
9130136	ML-404	1	30
9130137	ML-405	1	30
9130138	ML-406	1	30
9130144	MB-102	1	30
9130145	MB-103	1	30
9130146	MB-104	1	30

CODE	TYPE	PACK.	PAGE
9130147	MB-105	1	30
9130148	MB-106	1	30
9130149	ML-102	1	30
9130150	ML-103	1	30
9130151	ML-104	1	30
9130152	ML-105	1	30
9130153	ML-106	1	30
9130159	ML-108	1	30
9130160	MB-108	1	30
9130161	FU-704	1	30
9130163	FU-304	1	30
9130167	DU-900	1	25, 29
9130168	AU-621	9	21, 29
9130169	AU-641	9	21, 29
9130170	MB-208	1	30
9130171	ML-208	1	30
9130172	MB-308	1	30
9130173	ML-308	1	30
9130174	MB-408	1	30
9130175	ML-408	1	30
9130188	MB-112	1	30
9130189	MB-113	1	30
9130190	MB-114	1	30
9130191	MB-115	1	30
9130192	MB-116	1	30
9130193	MB-118	1	30
9160033	OS-122	1	32
9160034	OS-123	1	32
9160035	OS-124	1	32
9160036	OS-128	1	32
9160037	PSU-010	1	32
9160042	OAT-105	1	32
9160043	OPC-203	1	32
9160044	OPC-204	1	32
9160045	OPC-205	1	32
9160046	OPC-206	1	32
9160048	OT-412	1	32, 39
9160049	OWB-348	1	34
9160050	ODP-348	1	34
9160051	ODP-312	1	34
9160053	OAD-301	25	34
9160054	OWB-308	1	34
9160055	FOC-302	500	34
9160056	FOC-364	cut	34
9160057	FOC-368	cut	34

916

CODE	TYPE	PACK.	PAGE
9160058	OPT-301	1	34
9160059	OTB-300	1	35
9160060	OTB-310	1	35
9160061	OTB-315	1	35
9160062	OTB-320	1	35
9160063	OTB-325	1	35
9160064	OTB-330	1	35
9160065	OTB-335	1	35
9160066	OTB-340	1	35
9160067	OTB-410	1	35
9160068	OTB-415	1	35
9160069	OTB-420	1	35
9160070	OTB-425	1	35
9160071	OTB-430	1	35
9160072	OTB-435	1	35
9160073	OTB-440	1	35
9160074	OFS-345	1	35
9160075	OFS-360	1	35
9160076	OCN-300	1	35
9160077	OAT-306	1	32
9160078	OS-302	1	32
9160079	OS-304	1	32
9160080	OS-308	1	32
9160081	OR-512	1	32
9160082	FOC-344	cut	34
9160083	FOC-384	cut	34
9160084	OR-418	1	32, 39
9160085	FOC-408	100	34
9160086	OWB-312	1	34
9160087	OT-512	1	32, 39
9160088	OTB-345	1	35
9160089	OTB-350	1	35
9160090	OTB-355	1	35
9160091	OTB-360	1	35
9160092	OTB-445	1	35
9160093	OTB-450	1	35
9160094	OTB-455	1	35
9160095	OTB-460	1	35
9160096	FOC-402	500	34
9160098	OPT-305	1	34
9160099	OPT-310	1	34
9160100	OPT-315	1	34
9160101	OPT-320	1	34
9160102	OPC-405	1	34
9160103	OPC-410	1	34
9160104	OPC-415	1	34
9160105	OPC-420	1	34

CODE	TYPE	PACK.	PAGE
9160106	OTB-200	1	35
9160107	OAD-900	25	34
930 9300057	RWS-003	1	34, 35
9300059	TPC-101	1	35
9300060	TPC-103	1	35
951 9510064	MD-310	1	40
9510065	MD-410	1	40
9510067	MD-531	1	40
9510072	DMH-142	1	40
998 9980002	MT-210	6	8
9980003	MT-410	6	8
9980004	MT-325	6	8
9980005	MT-332	6	8
9980006	MT-338	6	8
9980007	MT-345	6	8
9980008	MT-352	6	8
9980009	PI-101	1	8
9980011	JV-335	100	8
9980012	BB-002	75	8
9980013	BB-001	100	8
9980014	TE-014	1	8
9980016	GM-026	50	8
9980018	BE-201	6	8
9980020	TA-001	6	8
9980023	SA-010	1	8
9980050	TS-025	1	7
9980051	TI-025	1	7
9980052	TS-015	1	7
9980053	BF-003	4	7
9980055	BE-001	4	7
9980056	GM-040	100	8
9980057	GM-050	10	8
9980058	AC-014	1	8
9980059	AC-013	25	8
9980062	CT-001	100	8
9980063	BZ-400	1	8
9980065	RS-500	12	8
9980066	RD-100	6	8
9980067	GM-200	12	8
9980068	GM-350	1	8
9980069	SE-090	50	8
9980099	CH-030	1	8
9980100	GM-515	1	8
9980102	MT-411	6	8
9980114	CT-003	100	8
9980115	BZ-401	1	8
D913 D913001	AU-0630	1	21, 30
D913004	AU-0680	1	21, 30

/ List by model

	TYPE	CODE	PACK.	PAGE
A	AC-013	9980059	25	8
	AC-014	9980058	1	8
	AI-100	9040053	24	13
	AI-108	9040062	24	13
	AI-131	9040056	24	13
	AI-133	9040057	24	13
	AI-200	9040050	24	13
	AI-201	9040254	-	13
	AI-221	9040051	24	13
	AI-223	9040052	24	13
	AI-231	9040130	24	13
	AI-233	9040123	24	13
	AI-240	9040125	24	13
	AI-270	9040129	24	13
	AI-271	9040255	-	13
	AI-400	9040063	24	13
	AI-414	9040075	24	13
	AL-100	9030086	24	12
	AL-105	9030087	24	12
	AL-110	9030103	24	12
	AL-125	9030119	24	12
	AL-245	9030213	24	12
	AM-165	9030163	24	11
	AM-177	9030188	24	11
	AM-183	9030185	24	10
	AM-187	9030186	24	10
	AM-190	9030192	24	10
	AM-195	9030193	24	10
	AM-246	9030142	24	11
	AM-274	9030176	24	11
	AM-292	9030194	24	10
	AM-296	9030195	24	10
	AM-309	9030048	24	12
	AM-374	9030177	24	11
	AM-387	9030200	24	10
	AM-396	9030207	24	10
	AM-397	9030201	24	10
	AM-487	9030205	24	10
	AM-497	9030204	24	10
	AM-696	9030212	24	12
	AM-913	9030190	24	11
	AM-915	9030209	24	10

	TYPE	CODE	PACK.	PAGE
	AP-367	9000197	48	4
	AS-125	9050083	28	20
	AU-0630	D913001	1	21, 30
	AU-0680	D913004	1	21, 30
	AU-620	9130041	9	21, 29
	AU-621	9130168	9	21, 29
	AU-640	9130042	9	21, 29
	AU-641	9130169	9	21, 29
	AV-305	9090031	1	28
	AV-315	9090033	1	28, 29, 30
B	BB-001	9980013	100	8
	BB-002	9980012	75	8
	BC-100	9070043	24	27
	BC-200	9070044	24	27
	BE-001	9980055	4	7
	BE-201	9980018	6	8
	BF-003	9980053	4	7
	BL-300	9090038	1	29, 30
	BM-100	9070037	24	27
	BM-101	9070038	24	27
	BM-111	9070039	24	27
	BM-200	9070040	24	27
	BM-500	9070041	24	27
	BM-700	9070042	24	27
	BO-165	9030167	24	11
	BO-190	9030196	24	10
	BO-195	9030197	24	10
	BO-292	9030198	24	10
	BO-296	9030199	24	10
	BO-366	9030173	24	11
	BO-396	9030208	24	10
	BO-397	9030202	24	10
	BO-497	9030206	24	10
	BO-696	9030211	24	12
	BO-913	9030191	24	11
	BO-915	9030210	24	10
	BR-401	9010008	100	9
	BR-407	9010018	100	9
	BR-411	9010009	100	9
	BR-421	9010013	100	9
	BS-100	9070062	24	26
	BS-101	9070087	1	26

TYPE	CODE	PACK.	PAGE
BS-102	9070086	1	26
BS-110	9070068	24	26
BS-112	9070073	24	26
BS-113	9070105	90	26
BS-210	9070070	24	26
BS-220	9070004	24	27
BS-420	9070005	24	27
BS-510	9070071	24	26
BS-620	9070006	24	27
BT-151	9000071	2/180	6
BT-751	9000063	90	6
BU-115	9000077	216	5
BU-116	9000084	144	5
BU-117	9000110	144	4
BU-267	9000105	74	4
BU-269	9000042	76	5
BU-452	9000202	52	4
BU-457	9000111	74	4
BU-569	9000043	27	5
BZ-400	9980063	1	8
BZ-401	9980115	1	8
C CA-210	9040060	24	15
CA-215	9040061	24	15
CA-220	9040073	24	15
CA-310	9040014	24	15
CA-311	9040011	24	15
CA-312	9040039	24	15
CA-320	9040150	24	15
CA-321	9040151	24	15
CA-340	9040116	24	15
CA-342	9040117	24	15
CA-360	9040141	24	15
CA-361	9040147	24	15
CA-362	9040146	24	15
CA-370	9040152	24	15
CA-371	9040153	24	15
CA-440	9040120	24	16
CA-441	9040121	24	16
CA-611	9040136	10	16
CA-612	9040133	10	16
CA-613	9040134	10	16
CA-661	9040148	10	16
CA-662	9040132	10	16
CA-663	9040149	10	16

TYPE	CODE	PACK.	PAGE
CA-671	9040143	9	16
CA-672	9040144	9	16
CA-710	9040103	8	16
CA-720	9040077	8	16
CA-730	9040003	8	16
CA-770	9040142	8	16
CAD-703	9040159	5	19
CAD-704	9040145	6	19
CAD-713	9040154	1	19
CB-400	9120126	1	39
CD-113	9120094	1	39
CE-140	9100064	100	22
CE-150	9100063	100	22
CE-741	9100019	500	22
CE-743	9100056	100	22
CE-753	9100021	100	22
CE-754	9100058	100	22
CE-755	9100059	500	22
CE-756	9100061	100	22
CE-757	9100062	500	22
CE-763	9100068	100	22
CE-860	9100060	100	22
CF-112	9040032	8	18
CH-030	9980099	1	8
CL-201	9100057	250	22
CM-004	9120039	100	23
CN-611	9130050	36	29
CP-126	9050124	1	20
CP-226	9120131	1	39
CP-426	9120132	1	39
CP-900	9050178	1	20
CT-001	9980062	100	8
CT-003	9980114	100	8
D DA-520	9040065	8	18
DA-601	9040155	10	18
DA-603	9040156	10	18
DA-611	9040157	10	18
DA-613	9040158	10	18
DA-720	9040015	8	18
DA-741	9040160	8	18
DA-743	9040161	8	18
DAM-504	9110000	1	18
DE-201	9060063	1	25
DE-203	9060064	1	25

TYPE	CODE	PACK.	PAGE
DE-205	9060065	12	25
DE-207	9060066	12	25
DE-401	9060068	1	25
DE-403	9060069	12	25
DE-405	9060070	12	25
DE-407	9060071	12	25
DE-603	9060073	12	25
DE-605	9060074	12	25
DE-607	9060075	12	25
DI-203	9060097	12	24
DI-213	9130059	6	24, 29
DI-303	9060098	12	24
DI-403	9060099	12	24
DI-413	9130060	6	24, 29
DI-603	9060100	12	24
DI-803	9060101	12	24
DMH-142	9510072	1	40
DU-240	9130062	1	24, 29
DU-900	9130167	1	25, 29
DV-102	9090016	1	24
E EM-101	9080004	25	24
EM-200	9070020	24	27
EM-201	9070021	24	27
EM-202	9070022	24	27
EM-210	9070024	72	27
EM-211	9070025	72	27
EM-212	9070027	72	27
EP-111	9080012	10	23
EP-212	9080013	10	23
EP-311	9080026	100	23
EP-313	9080020	10	23
F FA-410	9120245	1	32, 38
FA-411	9120249	1	38
FA-512	9120255	1	32, 37
FD-210	9060053	6	25
FD-213	9060033	6	25
FD-219	9060034	6	25
FD-225	9060035	6	25
FD-410	9060054	6	25
FD-413	9060038	6	25
FD-419	9060039	6	25
FD-425	9060040	6	25
FF-200	9040250	11	16, 18
FF-300	9040251	1	15

TYPE	CODE	PACK.	PAGE
FF-415	9040252	1	19
FF-420	9040253	1	19
FI-243	9060036	6	24
FI-244	9060055	6	24
FI-473	9060037	6	24
FI-474	9060056	6	24
FI-594	9060079	6	24
FM-102	9000040	2/128	6
FM-200	9000005	64	6
FOC-302	9160055	500	34
FOC-344	9160082	cut	34
FOC-364	9160056	cut	34
FOC-368	9160057	cut	34
FOC-384	9160083	cut	34
FOC-402	9160096	500	34
FOC-408	9160085	100	34
FP-211	9060031	6	25
FP-217	9060032	6	25
FP-223	9060043	6	25
FP-226	9060044	6	25
FP-414	9060046	6	25
FP-420	9060047	6	25
FP-426	9060048	6	25
FR-619	9020048	24	9
FR-900	9020052	24	9
FU-304	9130163	1	30
FU-513	9130057	28	21, 29
FU-612	9130054	28	21, 29
FU-704	9130161	1	30
G GA-047	9000199	10	4
GA-452	9000203	12	4
GA-457	9000112	12	4
GAN-267	9000198	10	4
GC-007	9100050	100	24
GM-026	9980016	50	8
GM-040	9980056	100	8
GM-050	9980057	10	8
GM-200	9980067	12	8
GM-350	9980068	1	8
GM-515	9980100	1	8
H HC-000	9080029	10	23
HC-095	9080001	25	23
HE-000	9080017	1	24
HE-001	9080021	1	24

	TYPE	CODE	PACK.	PAGE
	HE-002	9080028	1	24
	HE-100	9080018	1	24
	HE-200	9080016	1	24
	HE-201	9080022	1	24
I	IM-123	9090043	1	21
J	JV-335	9980011	100	8
L	LA-102	9120124	1	38
	LF-001	9120027	3	24
	LS-207	9120105	1	38
	LS-217	9120173	1	38
	LT-102	9050120	1	21
	LT-107	9050104	1	21
	LT-112	9050121	1	21
M	MB-102	9130144	1	30
	MB-103	9130145	1	30
	MB-104	9130146	1	30
	MB-105	9130147	1	30
	MB-106	9130148	1	30
	MB-108	9130160	1	30
	MB-112	9130188	1	30
	MB-113	9130189	1	30
	MB-114	9130190	1	30
	MB-115	9130191	1	30
	MB-116	9130192	1	30
	MB-118	9130193	1	30
	MB-202	9130069	1	30
	MB-203	9130070	1	30
	MB-204	9130071	1	30
	MB-205	9130072	1	30
	MB-206	9130073	1	30
	MB-208	9130170	1	30
	MB-302	9130079	1	30
	MB-303	9130080	1	30
	MB-304	9130081	1	30
	MB-305	9130082	1	30
	MB-306	9130083	1	30
	MB-308	9130172	1	30
	MB-402	9130089	1	30
	MB-403	9130090	1	30
	MB-404	9130091	1	30
	MB-405	9130092	1	30
	MB-406	9130093	1	30
	MB-408	9130174	1	30
	MC-000	9080025	10	23

	TYPE	CODE	PACK.	PAGE
	MC-095	9080000	25	23
	MC-102	9080034	100	23
	MC-104	9080014	50	23
	MC-202	9080033	25	23
	MC-204	9080015	50	23
	MC-302	9080023	100	23
	MC-304	9080030	100	23
	MD-104	9090017	1	25
	MD-310	9510064	1	40
	MD-410	9510065	1	40
	MD-531	9510067	1	40
	ME-213	9020019	6	25
	ME-214	9020015	6	25
	ML-102	9130149	1	30
	ML-103	9130150	1	30
	ML-104	9130151	1	30
	ML-105	9130152	1	30
	ML-106	9130153	1	30
	ML-108	9130159	1	30
	ML-202	9130094	1	30
	ML-203	9130095	1	30
	ML-204	9130096	1	30
	ML-205	9130097	1	30
	ML-206	9130098	1	30
	ML-208	9130171	1	30
	ML-302	9130114	1	30
	ML-303	9130115	1	30
	ML-304	9130116	1	30
	ML-305	9130117	1	30
	ML-306	9130118	1	30
	ML-308	9130173	1	30
	ML-402	9130134	1	30
	ML-403	9130135	1	30
	ML-404	9130136	1	30
	ML-405	9130137	1	30
	ML-406	9130138	1	30
	ML-408	9130175	1	30
	MM-200	9020041	24	9
	MM-207	9020040	24	9
	MM-214	9020045	24	9
	MM-303	9020017	24	9
	MM-307	9020042	24	9
	MS-543	9120109	1	38
	MS-569	9120239	1	38

TYPE	CODE	PACK.	PAGE
MS-571	9120238	1	38
MT-210	9980002	6	8
MT-325	9980004	6	8
MT-332	9980005	6	8
MT-338	9980006	6	8
MT-345	9980007	6	8
MT-352	9980008	6	8
MT-410	9980003	6	8
MT-411	9980102	6	8
MU-310	9130014	1	29
MU-320	9130033	1	29
MU-321	9130020	1	29
MU-330	9130017	1	29
MU-340	9130036	1	29
MU-341	9130023	1	29
MU-610	9130015	1	29
MU-620	9130034	1	29
MU-621	9130021	1	29
MU-630	9130018	1	29
MU-640	9130037	1	29
MU-641	9130024	1	29
MX-047	9000109	38	4
MX-076	9000088	27	5
N NEO-042	9000200	32	4
NEO-046	9000107	40	5
NEO-047	9000189	32	4
NEO-082	9000201	24	4
NEO-085	9000185	30	5
NEO-087	9000187	24	4
O OAD-301	9160053	25	34
OAD-900	9160107	25	34
OAT-105	9160042	1	32
OAT-306	9160077	1	32
OCN-300	9160076	1	35
ODP-312	9160051	1	34
ODP-348	9160050	1	34
OFS-345	9160074	1	35
OFS-360	9160075	1	35
OPC-203	9160043	1	32
OPC-204	9160044	1	32
OPC-205	9160045	1	32
OPC-206	9160046	1	32
OPC-405	9160102	1	34
OPC-410	9160103	1	34

TYPE	CODE	PACK.	PAGE
OPC-415	9160104	1	34
OPC-420	9160105	1	34
OPT-301	9160058	1	34
OPT-305	9160098	1	34
OPT-310	9160099	1	34
OPT-315	9160100	1	34
OPT-320	9160101	1	34
OR-418	9160084	1	32, 39
OR-512	9160081	1	32
OS-122	9160033	1	32
OS-123	9160034	1	32
OS-124	9160035	1	32
OS-128	9160036	1	32
OS-302	9160078	1	32
OS-304	9160079	1	32
OS-308	9160080	1	32
OT-412	9160048	1	32, 39
OT-512	9160087	1	32, 39
OTB-200	9160106	1	35
OTB-300	9160059	1	35
OTB-310	9160060	1	35
OTB-315	9160061	1	35
OTB-320	9160062	1	35
OTB-325	9160063	1	35
OTB-330	9160064	1	35
OTB-335	9160065	1	35
OTB-340	9160066	1	35
OTB-345	9160088	1	35
OTB-350	9160089	1	35
OTB-355	9160090	1	35
OTB-360	9160091	1	35
OTB-410	9160067	1	35
OTB-415	9160068	1	35
OTB-420	9160069	1	35
OTB-425	9160070	1	35
OTB-430	9160071	1	35
OTB-435	9160072	1	35
OTB-440	9160073	1	35
OTB-445	9160092	1	35
OTB-450	9160093	1	35
OTB-455	9160094	1	35
OTB-460	9160095	1	35
OWB-308	9160054	1	34
OWB-312	9160086	1	34

	TYPE	CODE	PACK.	PAGE
P	OWB-348	9160049	1	34
	PA-721	9120244	1	39
	PA-740	9120256	1	37
	PC-526	9050174	1	38
	PF-220	9120156	15	6
	PF-223	9120157	15	6
	PF-224	9120158	15	6
	PF-230	9120030	24	6
	PF-420	9120160	12	6
	PF-423	9120161	12	6
	PF-424	9120162	12	6
	PF-431	9120122	15	6
	PF-620	9120216	8	6
	PF-742	9120220	100	6
	PI-101	9980009	1	8
	PR-200	9090028	1	28
	PR-201	9090044	1	28
	PR-310	9090029	1	28, 29, 30
	PS-011	9120144	1	21, 39
	PSU-010	9160037	1	32
	PT-220	9070122	12	26
	PT-320	9070123	12	26
	PT-420	9070124	12	26
	PT-520	9070125	12	26
	PT-620	9070126	12	26
	PT-820	9070127	12	26
	PU-101	9120064	12	39
	PU-102	9120232	12	39
	PZ-010	9050102	10	21
	PZ-020	9050119	10	21
R	RB-619	9090042	8	28
	RB-900	9090046	8	28
	RC-110	9080019	10	21, 23, 29, 30
	RD-100	9980066	6	8
	RH-095	9080011	25	23
	RM-075	9050004	10	21, 23
	RM-095	9080010	25	23
	RS-275	9120011	10	23, 25
	RS-500	9980065	12	8
	RT-104	9050180	1	40
S	RWS-003	9300057	1	34, 35
	SA-010	9980023	1	8
	SB-003	9070075	24	27

	TYPE	CODE	PACK.	PAGE
T	SD-003	9060026	4	25
	SD-100	9060060	1	25
	SE-090	9980069	50	8
	SI-412	9010019	1	4
	SP-122	9050099	1	20
	SP-123	9050143	1	20
	SP-126	9050100	1	20
	SP-226	9120130	1	39
	SP-243	9120234	1	32, 39
	SP-244	9120233	1	37, 39
	SP-245	9120257	1	37
	SP-725	9120136	1	39
	SP-743	9120237	1	39
	TA-001	9980020	6	8
	TE-014	9980014	1	8
	TI-025	9980051	1	7
U	TM-101	9120251	1	37
	TM-102	9120254	1	37
	TM-111	9120252	1	37
	TM-112	9120253	1	37
	TM-202	9120259	1	37
	TMS-204	9120260	1	37
	TMS-214	9120261	1	37
	TPC-101	9300059	1	35
	TPC-103	9300060	1	35
	TS-015	9980052	1	7
V	TS-025	9980050	1	7
	TT-312	9120213	1	38
	UE-005	9120262	1	7
	UE-203	9120263	1	7
	UE-301	9120264	1	7
	UE-404	9120265	1	7
	VE-500	9050043	1	20, 39
	ZF-712	9050116	40	19, 20
	ZG-211	9050035	40	20
	ZG-212	9050106	40	20
Z	ZG-412	9050023	40	20
	ZG-413	9050024	40	20
	ZG-414	9050026	40	20
	ZG-431	9050022	40	20
	ZG-611	9050074	40	20
	ZP-002	9050052	10	21
	ZP-431	9050092	40	20

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For any question relating to the fulfilment or interpretation of the contract or its incidence, the parties, with the express renunciation of any other body or authority that may correspond to them, agree to submit any dispute to the competence of the courts and tribunals in the jurisdiction of our registered head office.

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