



EKSELANS BY ITS

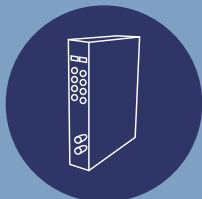
2024
VERSION

CM HEADEND

**FLEXIBLE AND
INTELLIGENT
MODULATION**



ENTER THE EK WORLD



COMPACT RANGE



CM COMPACT

REFERENCE		CM COMPACT 2S2
Code		085006
INPUTS		
Number of tuners		2
Input connectors		2+2 (loop)
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
LNB power supply	V / KHz	13/18 - 0/22 (350mA máx*)
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1+1 (RFMIX)
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T Modulation		
Number of channels		2 flexibles
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of channels		2 flexibles
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		Cable USB (included)
Power supply	Vdc	5 (power supply included)
Consumption (Without LNB)	mA	1000
Operating temperature	°C	0 - 40
Dimensions (including connectors)	mm	160 x 55 x 200

CM COMPACT 2S2

- ✓ TWIN module with 2 satellite inputs and 2 tuners (DVB-S / S2).
- ✓ Independent control of each tuner 13V/18V – 22 KHz – DiSEqC (A/B/C/D)
- ✓ Flexible service remultiplexing on each output MUX
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ Output of up to 4 channels (CM COMPACT 8S4) or 8 channels in 2 groups of 4+4 (CM COMPACT 8S8)
- ✓ COFDM / QAM programmable output
- ✓ High output level
- ✓ Excellent quality output signal. High MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through “CM Management” PC software
- ✓ Power supply and USB-USB cable included



CH3 COMPACT

- ✓ 3-unit wall chassis COMPACT series



CH3
COMPACT

CM COMPACT

REFERENCE		CM COMPACT 8S4
Code		085001
INPUTS		
Number of tuners		8
Input connectors		4
Input frequency	MHz	950 - 2150
Input level	dBµV	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
LNB power supply	V / KHz	13/18 - 0/22 (400mA max.)
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBµV	95
Output regulation	dB	20
DVB-T Modulation		
Number of channels		4 adjacents
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of channels		4 adjacents
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		Cable USB (included)
Power supply	Vdc	5 (power supply included)
Consumption (Without LNB)	mA	1000
Operating temperature	°C	0 - 40
Dimensions (including connectors)	mm	160 x 55 x 200
Medidas (incluye conectores)	mm	160 x 55 x 200

CM COMPACT 8S4

- ✓ OCTO module with 4 satellite inputs and 8 tuners (DVB-S / S2 / S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each tuner 13V/18V – 22 KHz – DiSEqC (A/B/C/D)
- ✓ Flexible service remultiplexing on each output MUX
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ Output of up to 4 channels (CM COMPACT 8S4) or 8 channels in 2 groups of 4+4 (CM COMPACT 8S8)
- ✓ COFDM / QAM programmable output
- ✓ High output level
- ✓ Excellent quality output signal. High MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through “CM Management” PC software
- ✓ Power supply and USB-USB cable included



CM COMPACT

REFERENCE		CM COMPACT 8S8
Code		085002
INPUTS		
Number of tuners		8
Input connectors		4
Input frequency	MHz	950 - 2150
Input level	dBµV	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
LNB power supply	V / KHz	13/18 - 0/22 (400mA max.)
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBµV	95
Output regulation	dB	20
DVB-T Modulation		
Number of channels		8 en dos grupos de 4+4 adyacentes
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		8 en dos grupos de 4+4 adyacentes
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		Cable USB (included)
Power supply	Vdc	5 (power supply included)
Consumption (Without LNB)	mA	2300
Operating temperature	mA	250 a 13V
Dimensions (including connectors)	°C	0 - 40
Medidas (incluye conectores)	mm	160 x 55 x 200

CM COMPACT 8S8

- ✓ OCTO modules with 4 satellite inputs and 8 tuners (DVB-S / S2 / S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each tuner 13V/18V - 22 KHz - DiSEqC (A/B/C/D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ Flexible service remultiplexing on each output MUX
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Output of up to 8 channels in 2 groups of 4+4COFDM / QAM programmable output
- ✓ High output level
- ✓ Excellent quality output signal. High MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through SW PC ("CM Management")
- ✓ Power supply and USB-USB cable included



REFERENCE	CM COMPACT PLUS 2S2	
Code		085011
INPUT		
Number of tuners		2
Input connectors		2+2 (loop)
Input frequency	MHz	950 - 2150
Input level	dB μ V	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Remote feeding	V / KHz	13/18 - 0/22 (350mA máx*)
DiSEqC		A / B / C / D
Unicable		-
OUTPUT		
Number of outputs		1+1 (RFMIX)
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dB μ V	115
Output regulation	dB	20
DVB-T Modulation		
Number of channels		2 flexible
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of channels		2 flexible
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		USB cable (included)
Power supply	Vdc / A	5 (Power supply included)
Consumption (Without LNB)	mA	1000
Operating temperature	°C	0 - 40

CM COMPACT PLUS 2S2

- ✓ Twin module with 2 satellite tuners and 2 loop-through outputs
- ✓ Independent control of each input 13V/18V – 22 KHz – DiSEqC (A/B/C/D)
- ✓ Flexible service remultiplexing on each output MUX
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Output of up to 2 flexible channels
- ✓ COFDM / QAM programmable output
- ✓ Modular power supply with integrated output amplifier with a level up to 112dB μ V
- ✓ Excellent quality output signal with high MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through SW PC ("CM Management")



HIGH
OUTPUT
LEVEL

EXCELLENT
MER QUALITY
LEVEL

MODULAR
SYSTEM

COMPLETELY
ASSEMBLED

CM COMPACT

REFERENCE		CM COMPACT PLUS 8S4
Code		085007
INPUT		
Number of tuners		8
Input connectors		4
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Remote feeding	V / KHz	13/18 - 0/22 (350mA máx.)
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	112
Output regulation	dB	20
DVB-T Modulation		
Number of channels		4 adjacents
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of channels		4 adjacents
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		USB cable (included)
Power supply	Vdc / A	5 - 10
Consumption (Without LNB)	mA	1800
Operating temperature	°C	0 - 40

CM COMPACT PLUS 8S4

- ✓ OCTO modules with 4 satellite inputs and 8 tuners (DVB-S / S2 / S2X). Supports multistream
- ✓ Independent control of each input 13V/18V – 22 KHz – DiSEqC (A/B/C/D)
- ✓ Flexible service remultiplexing on each output MUX
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Output of up to 4 channels (CM COMPACT 8S4) or 8 channels in 2 groups of 4+4 (CM COMPACT 8S8)
- ✓ COFDM / QAM programmable output
- ✓ Modular power supply with integrated output amplifier with a level up to 112dBμV
- ✓ Excellent quality output signal with high MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through SW PC ("CM Management")



CM COMPACT PLUS 8S4

HIGH
OUTPUT
LEVEL

EXCELLENT
MER QUALITY
LEVEL

MODULAR
SYSTEM

COMPLETELY
ASSEMBLED

CM COMPACT

REFERENCE		CM COMPACT PLUS 8S8
Code		085008
INPUT		
Number of tuners		8
Input connectors		4
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Channel bandwidth	MHz	36
Symbol rate	MSps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Remote feeding	V / KHz	13/18 - 0/22 (700mA máx.)
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	108
Output regulation	dB	20
DVB-T Modulation		
Number of channels		8 in two adjacent 4 + 4 groups
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of channels		8 in two adjacent 4 + 4 groups
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		USB cable (included)
Power supply	Vdc / A	5 - 10
Consumption (Without LNB)	mA	2300
Operating temperature	°C	0 - 40

CM COMPACT PLUS 8S8

- ✓ OCTO modules with 4 satellite inputs and 8 tuners (DVB-S / S2 / S2X). Supports multistream
- ✓ Independent control of each input 13V/18V – 22 KHz – DiSEqC (A/B/C/D)
- ✓ Flexible service remultiplexing on each output MUX
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Output of up to 4 channels (CM COMPACT 8S4) or 8 channels in 2 groups of 4+4 (CM COMPACT 8S8)
- ✓ COFDM / QAM programmable output
- ✓ Modular power supply with integrated output amplifier with a level up to 112dBμV
- ✓ Excellent quality output signal with high MER
- ✓ LCN / LCN HD Insertion
- ✓ Programming through SW PC ("CM Management")



HIGH
OUTPUT
LEVEL

EXCELENT
MER QUALITY
LEVEL

MODULAR
SYSTEM

COMPLETELY
ASSEMBLED

CM COMPACT

REFERENCE	KIT CM COMPACT AV 8
Code	085005
INPUT	
Number of RF inputs	1
Number of tuners	8
Input frequency	47-862 MHz
Impedance	75 Ohm
Input level	-82 a -20dBm
OUTPUT	
Number of RF outputs	1
Output frequency	170 - 862 MHz
Maximum output level	95 dBuV
Modulation	COFDM selectable
Number of MUX	2 COFDM
MER	>35dB (COFDM)
GENERAL	
Programming	On-site with CM Management software
Power	AC100-240V. 50/60Hz
Modular power supply	FA524 IN: AC100-240V. 50/60Hz - OUT: 5Vdc
Working temperature	0 - 40°C

KIT CM COMPACT AV8

- ✓ Headend kit to convert 8 DVB-T/DVB-T2 services - H264/H.265 in to COFDM SD MPEG 2
- ✓ 2 COFDM multiplex at the output
- ✓ Professional modulation quality
- ✓ Simple and intuitive programming
- ✓ Allows you to respect the existing channels in installation without reprogramming TVs.



MULTIFUNCTIONAL CM HEADENDS

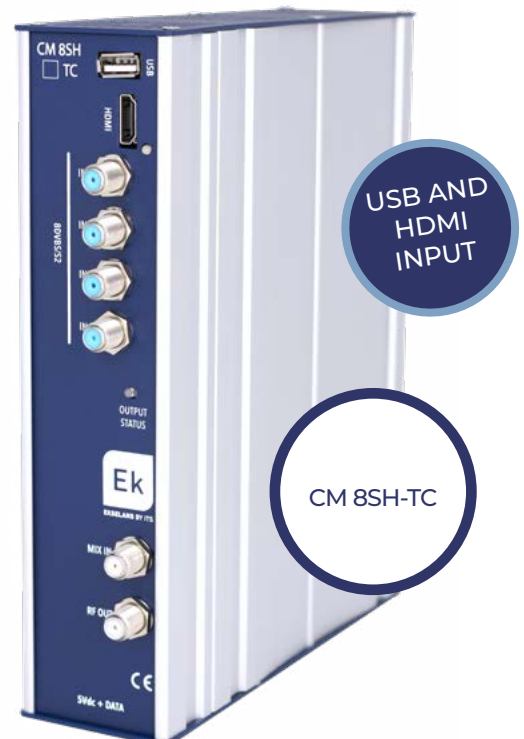


SATELLITE INPUT RF OUTPUT

REFERENCE		CM 8SH-TC
Code		082255
INPUT		
Number of inputs		4x RF + 1x HDMI + 1x USB
RF INPUT		
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
LNB power supply	V / KHz	13/18 - 0/22
DiSEqC		A / B / C / D
USB		
Priority		1
Version		2.0
File System		FAT32 / NTFS
Reproduction		Autoplay, List, Time schedule
File format		.TS (Transport Stream)
HDMI		
Priority		2
Video / Bitrate	- / Mbps	H.264 / 5 - 15
Audio / Bitrate	- / Kbps	AAC-LC, MPEG1-L2 / 128 - 384
Max resolution		1080p
OUPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>32
DVB-C modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 y 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>32
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no USB, no CAM, no HDMI)	mA	4100
Operating temperature	°C	0 - 40

CM 8SH-TC

- ✓ OCTO module with 4 SAT inputs and 8 tuners
- ✓ 1 HDMI input
- ✓ 1 USB 2.0 input
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Flexible remultiplexing of services on any output channel
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ Flexible QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 flexible QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



* 64 streams for a maximum of 64 services. Up to 300Mbps maximum

SATELLITE INPUT RF+IP OUTPUT

REFERENCE		CM 8SH TC-IP
Code		082257
INPUT		
Number of inputs		4x RF + 1x HDMI + 1x USB
RF INPUT		
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
DiSEqC		A / B / C / D
USB		
Priority		1
Version		2.0
File System		FAT32 / NTFS
Reproduction		Autoplay, List, Time schedule
File format		.TS (Transport Stream)
HDMI		
Priority		2
Video / Bitrate	- / Mbps	H.264 / 5 - 15
Audio / Bitrate	- / Kbps	AAC-LC, MPEG1-L2 / 128 - 384
Max resolution		1080p
TC OUTPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 y 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>32
DVB-C modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>32
IP OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query and IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no USB, no CAM, no HDMI)	mA	4600
Operating temperature	°C	0 - 40

CM 8SH TC/IP

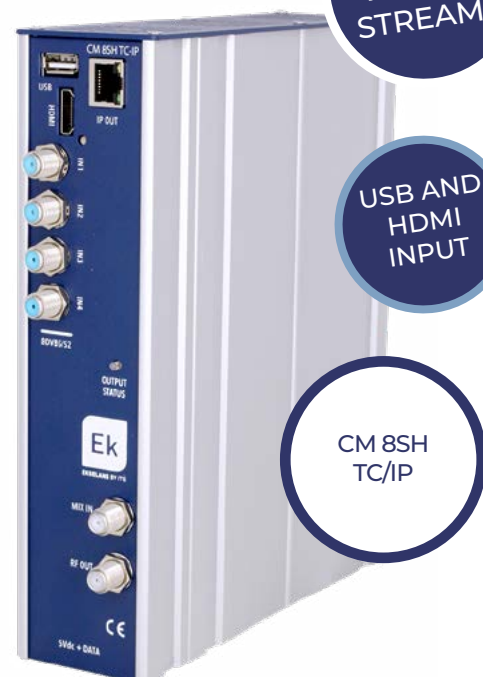
- ✓ OCTO module with 4 SAT inputs and 8 tuners
- ✓ 1 HDMI input
- ✓ 1 USB 2.0 input
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)

TC output

- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Flexible QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 flexible QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert

IP output

- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint



* 64 streams for a maximum of 64 services. Up to 300Mbps maximum

SATELLITE INPUT RF OUTPUT

REFERENCE		CM 2S 2CI-2TC
Code		082327
INPUT		
Number of tuners		2
Input connectors		2+2 (loop)
Input frequency	MHz	950 - 2150
Input level	dB μ V	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Telepower (LNB)		350mA máx*
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		2 x CI
DiSEqC		A / B / C / D
OUTPUT		
Number of outputs		1+1 (RFMIX)
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dB μ V	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		2 flexibles
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		2 flexibles
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>35
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	1200
Operating temperature	°C	0 - 40

CM 2S 2CI-2TC

- ✓ TWIN module with 2 SAT inputs and 2 tuners (DVB-S/S2).
- ✓ Independent control of each input 13/18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 2 channels COFDM / 2 QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



SATELLITE INPUT RF OUTPUT

REFERENCE		CM 8S 2CI-4TC
Code		082323
INPUT		
Number of inputs		4x RF
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		2 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Number of outputs		1+1 (RFMIX)
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		4 adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>35
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2000
Operating temperature	°C	0 - 40

CM 8S 2CI-4TC

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



SATELLITE INPUT RF OUTPUT

REFERENCE		CM 8S 2CI-8TC
Code		082324
INPUT		
Number of inputs		4x RF
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		2 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Number of outputs		1+1 (RFMIX)
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		8 (4+4) adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		8 (4+4) adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>35
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2500
Operating temperature	°C	0 - 40

CM 8S 2CI-8TC

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13/18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 8 channels COFDM / 8 QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



SATELLITE INPUT RF OUTPUT

REFERENCE		CM 8S 4CI-4TC
Code		082325
INPUT		
Number of inputs		4x RF
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBμV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		4 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Number of outputs		1+1 (RFMIX)
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		4 adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>35
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2200
Operating temperature	°C	0 - 40

CM 8S 4CI-4TC

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 4 common interface slots



SATELLITE INPUT RF OUTPUT

REFERENCE		CM 8S 4CI-8TC
Code		082326
INPUT		
Number of inputs		4x RF
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dBµV	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		4 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Number of outputs		1+1 (RFMIX)
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBµV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		8 (4+4) adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		8 (4+4) adjacent channels
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>35
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2700

CM 8S 4CI-8TC

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13/18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ Flexible remultiplexing of services on any output channel
- ✓ Editing NIT tables, SID remapping and passing or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 8 channels COFDM / 8 QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ LCN / LCN HD insert
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 4 common interface slots



TERRESTRIAL/CABLE INPUT · RF OUTPUT

REFERENCE		CM 4T-TC
Code		082258
INPUT		
Number of inputs		1x RF
Number of tuners		4
DVB-T / T2 reception		
Input frequency	MHz	110 - 862
Input level	dBμV	33-88
Constellation - Mode		QPSK, 16, 64, 256QAM 1K, 2K, 4K, 8K, 16K, 32K
DVB-C reception		
Input frequency	MHz	110 - 862
Input level	dBμV	46 - 88
Constellation - Mode	- / MHz	QPSK, 16, 32, 64, 128, 256 QAM / 6, 7, 8
Symbol rate	MSps	0,2 - 7,7
OUPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>32
DVB-C modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>32
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption	mA	2300
Operating temperature	°C	0 - 40

CM 4T-TC

- ✓ QUAD terrestrial and cable module (DVB-T / T2 / C)
- ✓ 1 input / 4 independent tuners
- ✓ Input LOOP
- ✓ Flexible remultiplexing of services on any output channel
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 flexible QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with high MER
- ✓ LCN / LCN HD insert
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



TERRESTRIAL/CABLE INPUT · RF OUTPUT

REFERENCE		CM 4T CI-TC
Code		082259
INPUT		
Number of inputs		1x RF
Number of tuners		4
DVB-T / T2 reception		
Input frequency	MHz	110 - 862
Input level	dBμV	33-88
Constellation - Mode		QPSK, 16, 64, 256QAM 1K, 2K, 4K, 8K, 16K, 32K
DVB-C reception		
Input frequency	MHz	110 - 862
Input level	dBμV	46 - 88
Constellation - Mode	- / MHz	QPSK, 16, 32, 64, 128, 256 QAM / 6, 7, 8
Symbol rate	MSps	0,2 - 7.7
Common interface		2 x CI
OUPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequencies	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
Bandwidth	MHz	7 or 8
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>32
DVB-C modulation		
Number of channels		4 flexible
Output frequency	MHz	170 - 230 / 470 - 862
Constellation		16, 32, 64, 128, 256QAM
Bandwidth	MHz	7 or 8
Symbol rate	MSps	4 ... 6,96
MER	dB	>32
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (no CAM)	mA	2500
Operating temperature	°C	0 - 40

CM 4T CI-TC

- ✓ QUAD terrestrial and cable module (DVB-T / T2 / C)
- ✓ 1 input / 4 independent tuners
- ✓ Input LOOP
- ✓ Flexible remultiplexing of services on any output channel
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ Programmable QAM / COFDM output
- ✓ Output of up to 4 channels COFDM / 4 flexible QAM channels
- ✓ High output level
- ✓ Excellent output signal quality with high MER
- ✓ LCN / LCN HD insert
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



AV/HDMI INPUT RF OUTPUT

REFERENCE		CM 4HD-TC
Code		082004
INPUT		
Number of inputs		4 (A, B, C, D)
A/V		
Video		-
Input level	V _{pp}	-
Impedance	Ω	-
Video compression		H.264
Video bitrate	Mbps	5 - 15
Audio compression		AAC-LC, MPEG1-L2
Audio bitrate	Kbps	128 - 384
HDMI Maximum		1080p
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T Modulation		
Number of MUX		2
Output frequency	MHz	170 - 230/ 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of MUX		2
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local Programming		Cable USB / RJ45 (LAN)
Remote programming		RJ45 (Internet) (CM Key)
Feeding	V _{dc}	5
Consumption	mA	3000
Operating temperature	°C	0 - 40

CM 4HD-TC

- ✓ 4 HDMI (HD) inputs
- ✓ Resolution of each input up to 1080p
- ✓ Programmable COFDM / QAM output
- ✓ Programming through "CM Management" PC software
- ✓ Remote management from FA 524 or CM PR



AV/HDMI INPUT RF OUTPUT

REFERENCE	CM 2AV-T
Code	082025
INPUT	
Number of video inputs	2 x CVBS
Video resolution mode	PAL (720x576) / NTSC (720x480)
Video compression	MPEG 2
Number of audio inputs	2 x audio stereo / 0.5-2.5 Vpp
Sample rate	48 KHz
Compression audio	MPEG1, LAYER II
DVB processing	Table insertion PAT, PNT, SDT, NIT
Configuration	NOMBRE DE PROGRAMA, SID, LCN, NETWORK NAME, TSD, ONID, NID, VERSION NIT, LCN, PMT
OUTPUT	
Number of outputs	1 + loop-through (-1,5 dB)
Maximum output level	95 dB μ V
Output regulation	20 dB (por software)
Output frequency	170-230 MHz + 470-862 MHz
Output MUXES	1 COFDM
Channel width	7 MHz (VHF) / 8 MHz (UHF)
COFDM modulation mode	2K / 8K
Constellation - FEC COFDM	QPSK/16QAM/64QAM 1/2, 2/3, 3/4, 5/6, 7/8
Guard interval	1/4, 1/8, 1/16, 1/32
MER	> 32dB
VARIOS	
Programming	PC software "CM management" via USB connected to the FA 524 / CM PR source
Power supply	5 Vdc
Consumption	1,2 A
Working temperature	0 - 40°

CM 2AV-T

- ✓ Multifunction headers series CM Encoder 2 A / V to COFDM / DTT
- ✓ 2 audio / video inputs (CVBS)
- ✓ Flexible COFDM output
- ✓ Programming through "CM Management" PC software
- ✓ Remote management from FA 524 or CM PR



AV/HDMI INPUT RF OUTPUT

REFERENCE		CM 4AV-TC
Code		082003
INPUT		
Number of inputs		4 (A1, B1, A2, B2)
A/V		
Video		CVBS
Input level	Vpp	0,7 - 1,4
Impedance	Ω	75
Video compression		MPEG2
Video bitrate	Mbps	4 - 12
Audio compression		MPEG1 Layer 2
Audio bitrate	Kbps	128 - 384
HDMI Maximum		-
OUTPUT		
Number of outputs		1
MIX Port	dB	<1,5
Maximum output level	dB μ V	95
Output regulation	dB	20
DVB-T Modulation		
Number of MUX		1
Output frequency	MHz	170 - 230/ 470 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard Interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C Modulation		
Number of MUX		-
Output frequency	MHz	-
Constellation		-
Symbol rate	Mbps	-
MER	dB	-
GENERAL		
Local Programming		Cable USB / RJ45 (LAN)
Remote programming		RJ45 (Internet) (CM Key)
Feeding	Vdc	5
Consumption	mA	2060
Operating temperature	$^{\circ}$ C	0 - 40

CM 4AV-TC

- ✓ 4 audio/video inputs (CVBS)
- ✓ Flexible COFDM output
- ✓ Programming through "CM Management" PC software
- ✓ Remote management from FA 524 or CM PR



SATELLITE INPUT IP OUTPUT

REFERENCE		CM 8S-IP
Code		082294
INPUT		
Number of inputs		4 x RF
RF INPUT		
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dB μ V	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepowering	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
DiSEqC		A / B / C / D
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query e IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption	mA	3500
Operating temperature	°C	0 - 40

CM 8S-IP

- ✓ OCTO module with 4 SAT inputs and 8 tuners
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ IP output gigabit 1Gbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



SATELLITE INPUT IP OUTPUT

REFERENCIA		CM 8SH-IP
Código		082262
ENTRADA		
Número de entradas		4x RF + 1x HDMI + 1x USB
ENTRADA RF		
Número de tuners		8
Frecuencia de entrada	MHz	950 - 2150
Nivel de entrada	dBμV	40 - 79
Velocidad de símbolo	Mbps	1 - 45
Tipo de modulación		QPSK / 8PSK / 16APSK / 32APSK
Telealimentación	V / KHz	13/18 - 0/22
Corriente máxima por entrada LNB	mA	500
Corriente total máxima LNB's	mA	750
DiSEqC		A / B / C / D
USB		
Prioridad		1
Version		2.0
Sistema de archivos		FAT32 / NTFS
Reproducción		Autoplay, Lista, Programación horaria
Formato del fichero		.TS (Transport Stream)
HDMI		
Prioridad		2
Video / Bitrate	- / Mbps	H.264 / 5 - 15
Audio / Bitrate	- / Kbps	AAC-LC, MPEG1-L2 / 128 - 384
Resolución máxima		1080p
SALIDA		
Conector		RJ45 - Fast Ethernet
Esquema de enrutamiento		Unicast / Multicast
Streams máximos		64 (SPTS / MPTS)
Protocolos		UDP / RTP / QoS / SAP
Funciones		IGMP Query e IGMP Auto-Joint
GENERAL		
Programación local		Por cable USB / RJ45 (LAN) con FA 524 o CM PR
Programación remota		Por RJ45 (Internet) (CM Key)
Alimentación	Vdc	5
Consumo (Sin LNB, sin USB, sin CAM, sin HDMI)	mA	3500
Temperatura de funcionamiento	°C	0 - 40

CM 8SH-IP

- ✓ OCTO module with 4 SAT inputs and 8 tuners
- ✓ 1 HDMI input
- ✓ 1 USB 2.0 input
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ IP output 1Gbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



CM 8SH-IP

SATELLITE INPUT IP OUTPUT

REFERENCE		CM 8S 2CI-IP
Code		082295
INPUT		
Number of inputs		4 x RF
RF INPUT		
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dB μ V	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		2 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query and IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2000
Operating temperature	$^{\circ}$ C	0 - 40

CM 8S 2CI-IP

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ IP output gigabit 1Gbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



SATELLITE INPUT IP OUTPUT

REFERENCE		CM 8S 4CI-IP
Code		082322
INPUT		
Number of inputs		4 x RF
RF INPUT		
Number of tuners		8
Input frequency	MHz	950 - 2150
Input level	dB μ V	40 - 79
Symbol rate	Mbps	1 - 45
Modulation type		QPSK / 8PSK / 16APSK / 32APSK
Telepower	V / KHz	13/18 - 0/22
Maximum current per LNB input	mA	500
LNB's maximum total current	mA	750
Common interface		4 x CI
DiSEqC		A / B / C / D
Unicable		SatCR / dCSS
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query and IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (No LNB, no CAM)	mA	2200
Operating temperature	°C	0 - 40

CM 8S 4CI-IP

- ✓ OCTO module with 4 SAT inputs and 8 tuners (DVB-S/ S2/S2X). Supports multistream
- ✓ BISS compatible
- ✓ Independent control of each input 13 / 18V - 22KHz - DiSEqC (A / B / C / D)
- ✓ Unicable LNB Support: SatCR/dCSS
- ✓ IP output gigabit 1Gbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 SPTS/MPTS output IP streams.
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 4 common interface slots



TERRESTRIAL/CABLE INPUT · IP OUTPUT

REFERENCE	CM 4T-IP	
Code	082260	
INPUT		
Number of inputs	1x RF	
Number of tuners	4	
DVB-T / T2 reception		
Input frequency	MHz	110 - 862
Input level	dB μ V	33-88
Constellation - Mode	QPSK, 16, 64, 256QAM 1K, 2K, 4K, 8K, 16K, 32K	
DVB-C reception		
Input frequency	MHz	110 - 862
Input level	dB μ V	46 - 88
Constellation - Mode	- / MHz	QPSK, 16, 32, 64, 128, 256 QAM / 6, 7, 8
Symbol rate	MSps	0,2 - 7,7
OUTPUT		
Connector	RJ45 - Fast Ethernet	
Routing scheme	Unicast / Multicast	
Maximum services	64 (SPTS / MPTS)	
Protocols	UDP / RTP / QoS / SAP	
Features	IGMP Query and IGMP Auto-Joint	
GENERAL		
Local programming	By USB / RJ45 cable (LAN) with FA 524 or CM PR	
Remote programming	By RJ45 (Internet) (CM Key)	
Power supply	Vdc	5
Consumption	mA	1700
Operating temperature	°C	0 - 40

CM 4T-IP

- ✓ QUAD terrestrial and cable module (DVB-T / T2 / C)
- ✓ 1 input / 4 independent tuners
- ✓ Input LOOP
- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output SPTS/MPTS
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



CM 4T-IP

TERRESTRIAL/CABLE INPUT · IP OUTPUT

REFERENCE		CM 4T-CI-IP
Code		082261
INPUT		
Number of inputs		1x RF
Number of tuners		4
DVB-T / T2 reception		
Input frequency	MHz	110 - 862
Input level	dBμV	33-88
Constellation - Mode		QPSK, 16, 64, 256QAM 1K, 2K, 4K, 8K, 16K, 32K
DVB-C reception		
Input frequency	MHz	110 - 862
Input level	dBμV	46 - 88
Constellation - Mode	- / MHz	QPSK, 16, 32, 64, 128, 256 QAM / 6, 7, 8
Symbol rate	MSps	0,2 - 7,7
Common interface		2 x CI
OUPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query and IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (no CAM)	mA	1900
Operating temperature	°C	0 - 40

CM 4T CI-IP

- ✓ QUAD terrestrial and cable module (DVB-T / T2 / C)
- ✓ 1 input / 4 independent tuners
- ✓ Input LOOP
- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)
- ✓ 2 common interface slots



CM 4T CI-IP

TERRESTRIAL/CABLE INPUT · IP OUTPUT

REFERENCE		CM 8TC-IP
Code		082293
INPUT		
Number of inputs		1x RF
Number of tuners		8
DVB-T / T2 reception		
Input frequency	MHz	110 - 862
Input level	dB μ V	33-88
Constellation - Mode		QPSK, 16, 64, 256QAM 1K, 2K, 4K, 8K, 16K, 32K
DVB-C reception		
Input frequency	MHz	42 - 1002
Input level	dB μ V	46 - 88
Constellation - Mode	- / MHz	QPSK, 16, 32, 64, 128, 256 QAM / 6, 7, 8
Symbol rate	MSps	1 - 7.2
Supported annexes		A, B y C
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
Features		IGMP Query e IGMP Auto-Joint
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption	mA	1700
Operating temperature	$^{\circ}$ C	0 - 40

CM 8TC-IP

- ✓ OCTO terrestrial and cable module (DVB-T/T2/C)
- ✓ 1 input / 8 independent tuners
- ✓ Input LOOP
- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524)



CM 8TC-IP

AV/HDMI INPUT IP OUTPUT

REFERENCE		CM 4AV-IP
Code		082007
INPUT		
Number of inputs		4 (A1, B1, A2, B2)
A/V		
Video		CVBS
Input level	Vpp	0,7 - 1,4
Impedance	Ω	75
Video compression		MPEG2
Video bitrate	Mbps	4 - 12
Audio compression		MPEG1 Layer 2
Audio bitrate	Kbps	128 - 384
HDMI		
Video / Bitrate	- / Mbps	-
Audio / Bitrate	- / Kbps	-
Max resolution		-
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		16 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
GENERAL		
Local programming		By USB / RJ45 cable (LAN)
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption	mA	2000
Working temperature	$^{\circ}\text{C}$	0 - 40

CM 4AV-IP

- ✓ 4 audio/video inputs (CVBS) to IP multicast modulators
- ✓ Encoding parameters setting
- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Flexible remultiplexing of services on IP egress
- ✓ SAP function
- ✓ Up to 16 output streams
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ Remote management from FA 524 using CM KEY



CM 4AV-IP

AV/HDMI INPUT IP OUTPUT

REFERENCE		CM 4HD-IP
Code		082008
INPUT		
Number of inputs		4 (A, B, C, D)
A/V		
HDMI		
Video / Bitrate	- / Mbps	H.264 / 5 - 15
Audio / Bitrate	- / Kbps	AAC-LC, MPEG1-L2 / 128 - 384
Max resolution		1080p
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		16 (SPTS / MPTS)
Protocols		UDP / RTP / QoS / SAP
GENERAL		
Local programming		By USB / RJ45 cable (LAN)
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption	mA	2400
Working temperature	°C	0 - 40

CM 4HD-IP

- ✓ 4 HDMI (HD) inputs to IP multicast modulators
- ✓ Encoding parameters setting
- ✓ IP output 100Mbps SPTS / MPTS in UDP / RTP format
- ✓ Flexible remultiplexing of services on IP output
- ✓ SAP function
- ✓ Up to 16 output streams
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ Remote management from FA 524 using CM KEY



CM 4HD-IP

IP INPUT RF OUTPUT

REFERENCE		CM IP-TC
Code		082018
INPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		15 (SPTS / MPTS)
Supported protocols		IEEE 802.3, SPTS/ MPTS, UDP, RTP, QoS
Local IP assignment		DHCP / Estática
PCR (Program Clock Reference)		Acorde con ETSI TR 101 290
COMMON INTERFACE		
Slots		-
OUTPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequency	MHz	170 - 862
Maximum output level	dBμV	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		3
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		4
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local programming		Por cable USB / RJ45 (LAN)
Remote programming		Por RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (without CAM)	mA	1800
Working temperature	°C	0 - 40

CM IP-TC

- ✓ Input up to 15 IP Unicast / Multicast services
- ✓ Supported protocols: SPTS / MPTS, UDP / RTP, SIP, QoS
- ✓ Support services with different input bit rates
- ✓ Programmable QAM / COFDM output
- ✓ Flexible remultiplexing of services on IP output
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ LCN / LCN HD insert
- ✓ Output connector or input connector for mixing
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ Remote management from FA 524 using CM KEY



IP INPUT RF OUTPUT

REFERENCE		CM IP CI-TC
Code		082019
INPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		15 (SPTS / MPTS)
Supported protocols		IEEE 802.3, SPTS/ MPTS, UDP, RTP, QoS
Local IP assignment		DHCP / Static
PCR (Program Clock Reference)		According to ETSI TR 101 290
COMMON INTERFACE		
Slots		2
OUTPUT		
Number of outputs		1
Mixing port	dB	<1,5
Output frequency	MHz	170 - 862
Maximum output level	dB μ V	95
Output regulation	dB	20
DVB-T modulation		
Number of channels		4
Output frequency	MHz	170 - 862
Constellation - Mode		QPSK, 16QAM, 64QAM - 2K
FEC		1/2, 2/3, 3/4, 5/6, 7/8
Guard interval		1/4, 1/8, 1/16, 1/32
MER	dB	>35
DVB-C modulation		
Number of channels		4
Output frequency	MHz	50 - 862
Constellation		16, 32, 64, 128, 256QAM
Symbol rate	Mbps	4 ... 6,96
MER	dB	>40
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		By RJ45 (Internet) (CM Key)
Power supply	Vdc	5
Consumption (without CAM)	mA	1500
Working temperature	°C	0 - 40

CM IP CI-TC

- ✓ Input up to 15 IP Unicast / Multicast services
- ✓ Supported protocols: SPTS / MPTS, UDP / RTP, SIP, QoS
- ✓ Support services with different input bit rates
- ✓ Programmable QAM / COFDM output
- ✓ Flexible remultiplexing of services on IP output
- ✓ NIT tables editing, SID remapping, sending or deleting EMM messages and CAT tables
- ✓ LCN / LCN HD insert
- ✓ Output connector or input connector for mixing
- ✓ High output level
- ✓ Excellent output signal quality with a high MER
- ✓ Programming through "CM Management" PC software
- ✓ Configuration cloning. Status and configuration report
- ✓ Remote management from FA 524 using CM KEY



IP INPUT IP OUTPUT

REFERENCE		CM IP CI-IP
Code		082037
INPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		31 (SPTS / MPTS)
Supported protocols		IEEE 802.3, SPTS/ MPTS, UDP, RTP, QoS
Local IP assignment		DHCP / Static
PCR (Program Clock Reference)		According to ETSI TR 101 290
COMMON INTERFACE		
Slots		2
OUTPUT		
Connector		RJ45 - Fast Ethernet
Routing scheme		Unicast / Multicast
Maximum services		64 (SPTS / MPTS)
Local IP assignment		DHCP / Static
Supported protocols		UDP / RTP / QoS / SAP
GENERAL		
Local programming		By USB / RJ45 cable (LAN) with FA 524 or CM PR
Remote programming		RJ45 (Internet) + CM Key
Power supply	Vdc	5
Consumption (without CAM)	mA	1300
Working temperature	°C	0 - 40

CM IP CI-IP

- ✓ Input up to 31 IP Unicast / Multicast services
- ✓ Supported protocols: SPTS / MPTS, UDP / RTP, SIP, QoS
- ✓ Support services with different input bit rates
- ✓ 2 slots common interface
- ✓ IP output 1Gbps SPTS / MPTS in UDP / RTP format
- ✓ Up to 64 output streams
- ✓ SAP function
- ✓ IGMP Query and IGMP Auto-Joint
- ✓ Programming via SW PC ("CM Management")
- ✓ Configuration cloning and reporting
- ✓ On-site management (FA 510 / CM PR) or remote (FA 524) using CM KEY



OPTICAL TRANSMISION

REFERENCE		CM TO 3-1310
Code		274101
RF Input		
Frequency	MHz	47 - 1000
Flatness	dB	±0,75
TV input level	dBµV	70-80*
Input level SAT	dBµV	-
TV + SAT input level	dBµV	-
Input regulation	dBµV	20
Return losses	dB	≥14
Input impedance	Ω	75
Connector		F type
Optical output		
Wavelength	nm	1310
Optical power output	dBm	3
Laser type		DFB
Optical adaptation	dB	>45
Optical connector		SC / APC
Input voltage	Vac	88 - 264
Input frequency	Hz	47 - 63
Peak current	mA	-
LNB Power supply	Vdc KHz	-
Operating temperature	°C	-20...+55

(*) 59 Ch PAL-I analog channels

CM TO 3 1310

- ✓ They allow the distribution of radio frequency signal over long distances taking advantage of fiber optics
- ✓ Optical output level indicator LED
- ✓ Input level regulation



CM TO 3 1310

OPTICAL TRANSMISION

REFERENCE		CM TO 3-1550
Code		274106
RF Input		
Frequency	MHz	47 - 1000
Flatness	dB	±0,75
TV input level	dBµV	70-80*
Input level SAT	dBµV	-
TV + SAT input level	dBµV	-
Input regulation	dBµV	20
Return losses	dB	≥14
Input impedance	Ω	75
Connector		F type
Optical output		
Wavelength	nm	1550
Optical power output	dBm	3
Laser type		DFB
Optical adaptation	dB	>45
Optical connector		SC / APC
Input voltage	Vac	88 - 264
Input frequency	Hz	47 - 63
Peak current	mA	-
LNB Power supply	Vdc KHz	-
Operating temperature	°C	-20...+55

CM TO 3 1550

- √ They allow the distribution of radio frequency signal over long distances taking advantage of fiber optics
- √ Optical output level indicator LED
- √ Input level regulation



CM TO 3 1550

OPTICAL TRANSMISION

REFERENCE		CM TO 3 FI-1310
Code		274100
RF Input		
Frequency	MHz	47 - 2150
Flatness	dB	±0,75
TV input level	dBµV	70-80*
Input level SAT	dBµV	58-78**
TV + SAT input level	dBµV	72-84***
Input regulation	dBµV	20
Return losses	dB	≥14
Input impedance	Ω	75
Connector		F type
Optical output		
Wavelength	nm	1310
Optical power output	dBm	3
Laser type		DFB
Optical adaptation	dB	>45
Optical connector		SC / APC
Input voltage	Vac	88 - 264
Input frequency	Hz	47 - 63
Peak current	mA	500
LNB Power supply	Vdc KHz	13 - 18 0 - 22
Operating temperature	°C	-20...+55

(*) 59 Ch PAL-I analog channels

CM TO 3 FI-1310

- ✓ They allow the distribution of radio frequency signal over long distances taking advantage of fiber optics
- ✓ Optical output level indicator LED
- ✓ Allows selection of satellite band and polarity
- ✓ Input level regulation



TRANSMISIÓN ÓPTICA

CM TO 3 FI-1550

- ✓ They allow the distribution of radio frequency signal over long distances taking advantage of fiber optics
- ✓ Optical output level indicator LED
- ✓ Allows selection of satellite band and polarity
- ✓ Input level regulation

REFERENCE		CM TO 3 FI 1550
Code		274107
RF Input		
Frequency	MHz	47 - 2150
Flatness	dB	±0,75
TV input level	dBμV	70-80*
Input level SAT	dBμV	58-78**
TV + SAT input level	dBμV	72-84***
Input regulation	dBμV	20
Return losses	dB	≥14
Input impedance	Ω	75
Connector		F type
Optical output		
Wavelength	nm	1550
Optical power output	dBm	3
Laser type		DFB
Optical adaptation	dB	>45
Optical connector		SC / APC
Input voltage	Vac	88 - 264
Input frequency	Hz	47 - 63
Peak current	mA	500
LNB Power supply	Vdc KHz	13 - 18 0 - 22
Operating temperature	°C	-20...+55

(*) 59 Ch PAL-I analog channels



OPTICAL TRANSMISION

REFERENCE		CM TO 10 FI-1550
Code		274102
RF Input		
Frequency	MHz	47 - 2150
Flatness	dB	±0,75
TV input level	dB μ V	70-80*
Input level SAT	dB μ V	58-78**
TV + SAT input level	dB μ V	72-84***
Input regulation	dB μ V	20
Return losses	dB	≥14
Input impedance	Ω	75
Connector		F type
Optical output		
Wavelength	nm	1550
Optical power output	dBm	10
Laser type		DFB
Optical adaptation	dB	>45
Optical connector		SC / APC
Input voltage	Vac	88 - 264
Input frequency	Hz	47 - 63
Peak current	mA	500
LNB Power supply	Vdc KHz	13 - 18 0 - 22
Operating temperature	°C	-20...+55

(*) 59 Ch PAL-I analog channels

(**)

(***)

CM TO 10 FI-1550

- √ Allows the distribution of radio frequency signal over long distances taking advantage of fiber optics
- √ Optical output level indicator LED
- √ Allows selection of satellite band and polarity
- √ Input level regulation



OPTICAL TRANSMISSION

REFERENCE		CM RF 2	CM RF 4	CM RF 8
Code		274103	274104	274105
Inputs / Outputs		1/2	1/4	1/8
Fiber type		G.657.A1		
Connector type		SC / APC		
Working wavelength	nm	1260 - 1650		
Insertion loss	dB @ 1310 nm	3,8	6,9	10,1
	dB @ 1490 nm	3,9	7	10,2
	db @ 1550 nm	3,9	7	10,3
Dependency loss of polarization	dB	0,15		
Return loss	dB	>60		
Uniformity	dB	<0,8		
Directivity	dB	>55		
Storage temperature	°C	-40 ~ 85		
Work temperature	°C	-40 ~ 85		
Packaging		1		

CM RF 2 · CM RF 4 · CM RF 8

√ Optical splitter with 2, 4 or 8 outputs. CM Headend Compatible



ACCESSORIES

REFERENCE	FA 524
Code	080003
Input voltage	90-253 Vcc
Input frequency	50-60 Hz
Output voltage	24 Vdc
Peak current	5A
Maximum power	120W
Type	Modular
Working temperature	0-45°
Programming mode	USB Connector
Programming	Via PC
Remote management	RJ45 Connector

FA 524

- √ High-efficiency power supply
- √ With protection fuses against electrical current overload
- √ It allows the programming and remote management of complete headend



ACCESSORIES

REFERENCE	FA 524 KEY
Code	082045
Input voltage	90-253 Vcc
Input frequency	50-60 Hz
Output voltage	24 Vdc
Peak current	5A
Maximum power	120W
Type	Modular
Working temperature	0-45°
Programming mode	USB Connector
Programming	Via PC
Remote management	RJ45 Connector

FA 524 KEY

- ✓ High-efficiency power supply
- ✓ With protection fuses against electrical current overload
- ✓ It allows the programming and remote management of complete headend
- ✓ CM Key included



REFERENCE		CM AMP 114
Code		082329
Inputs	N.	1
Outputs	N.	1
Frequencies	MHz	47 -694
Gain	dB	20
Regulation	dB	10
Output level DIN 45004B	dB μ V	114
Return losses	dB	>10
Noise figure	dB	<3
Power supply	V	100-240
Power consumption	W	0,9

CM AMP 114

NEW

- ✓ CM serie amplifier
- ✓ Gain 20dB
- ✓ Output level 114dB μ V (DIN 45004B)



ACCESSORIES

REFERENCE		CM PR
Code	-	082014
Ports	-	Ethernet, USB (Tipo B)
Feeding	-	14 PIN HE bus.
Dimensions	mm	115x28x48

REFERENCE		FA 55
Code	-	082010
Feeding	Vac / Hz	100-240 / 46-63
Output voltage	Vdc	5
Max. output current	A	5

CM PR • FA 55

- √ It allows the programming of CM Headend modules.
- √ Programming via CM Management (USB port).
- √ Programming via CM Management in remote (LAN / Internet).
- √ Feeding from CM module already fed via FA 55 PSU



CM PR
+
FA 55

ACCESSORIES



CM HEADEND

CM KEY

Remote management key

CM KEY

- √ CM Key allows the remote connection to the power supply FA 524 through the CM Management software (PC Software that allows the programming of the CM Headend via USB cable or remotely). As it is linked to the power supply, it's possible to have access to all the modules connected to the power supply only if connected to the internet. It's needed a user key and a password to identify it on the remote server.

REFERENCE	CH3 TR	CHM TR	CHR TR
Code	220005	080005	080006
Description	Wall-mount 3 CM modules	Wall-mount 6 CM modules	19" rack 6 CM modules
Number of modules	2 + Power supply	6 + Power supply	6 + Power supply
Mounting	Wall	Wall	Rack 19"
Height in rack units	-	-	6 U
Measures	187x265x26 mm	427x265x26 mm	475x265x200 mm
Material	Galvanized steel	Galvanized steel	Galvanized steel

CH 3 TR · CHR TR · CHM TR



CHR TR



CH 3 TR



CHM TR



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