ASTRACOM®

Professional Satellite Systems

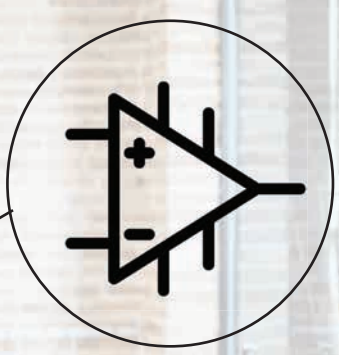
2022

powered by KOMSIS ELEKTRONİK

10 Series MX Multiswitch

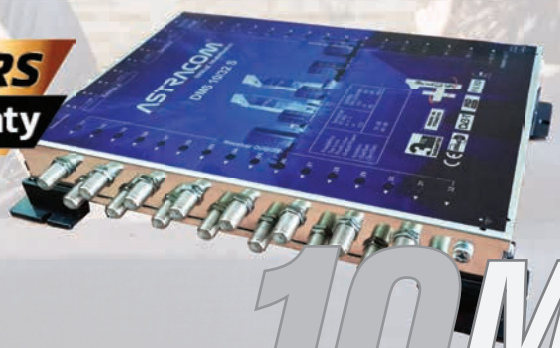
2+1 Satellite Input

New cross connector alignment design allows easy installation



Strong signal with included amplifier

3 YEARS Warranty



4K ULTRA HD

10 MX

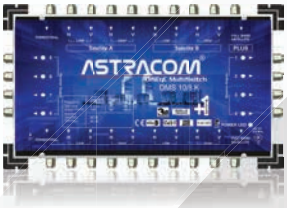
10 Series MX Multiswitch

MX 10/ 8 End-Type - MX 10/ 8 Cascade
MX 10/12 End-Type - MX 10/12 Cascade
MX 10/16 End-Type - MX 10/16 Cascade
MX 10/20 End-Type - MX 10/20 Cascade
MX 10/24 End-Type - MX 10/24 Cascade
MX 10/32 End-Type - MX 10/32 Cascade
MX 10/40 End-Type - MX 10/40 Cascade
MX 10/48 End-Type - MX 10/48 Cascade
MX 10/56 End-Type - MX 10/56 Cascade
MX 10/64 End-Type - MX 10/64 Cascade
MX 10/72 End-Type - MX 10/72 Cascade
MX 10/80 End-Type - MX 10/80 Cascade
MX 10/100 End-Type - MX 10/100 Cascade
MX 10/120 End-Type - MX 10/120 Cascade

Satellite & Terrestrial

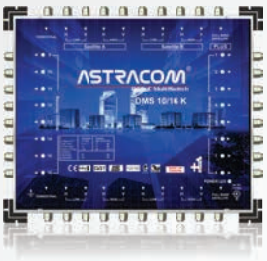
Inputs	8 Uydu +1 (10 Serisi) 16+1 (17 Serisi) 1 Terrestrial	
Outputs	8 Uydu /Satellite +1 Plus (16+1 17 Series) (For Cascade models)	
Tap Output	8,16,20,24,32,40,48,56,64,72,80,100,120	
	TV	SAT
Frequency Band	47-862 MHz	950-2200MHz
Tap Loss	0+/-2 dB	0 dB
Trunk Loss	-4 dB	-6 dB
(Cascade Types)		
Isolation	40 dB (TV)	
Ports	30 dB (SAT)	
Isolation	30 dB	
Switching		
Output Power	100 dBuV (DIN45004B)	
Terrestrial	Dahili Ga-As Mesfet Amplifier	
Output Power SAT	95 dBuV (IMD2 -35dB)	
Switching	DiSEqC 1.0 / 2.0 SAT A	
	13V/18V 0KHz / 22KHz SAT A	
DVB-C / DVB-T / HDTV	Compatible	
Port Currents	Horizantal 47 mA	
(For Each User)	Vertical 32 mA	
LNB Supply	SMPS 16V/2A	

DiSEqC 2.0 Multiswitch
2 Satellite Input
+1 Satellite
Terrestrial and Camera Input



DMS 10/8 S
DMS 10/8 K

DMS 10/12 S
DMS 10/12 K



DMS 10/16 S
DMS 10/16 K

DMS 10/20 S
DMS 10/20 K

DMS 10/48 S
DMS 10/48 K

DMS 10/40 S
DMS 10/40 K

DMS 10/32 S
DMS 10/32 K

DMS 10/24 S
DMS 10/24 K

DMS 10/56 S
DMS 10/56 K

DMS 10/64 S
DMS 10/64 K

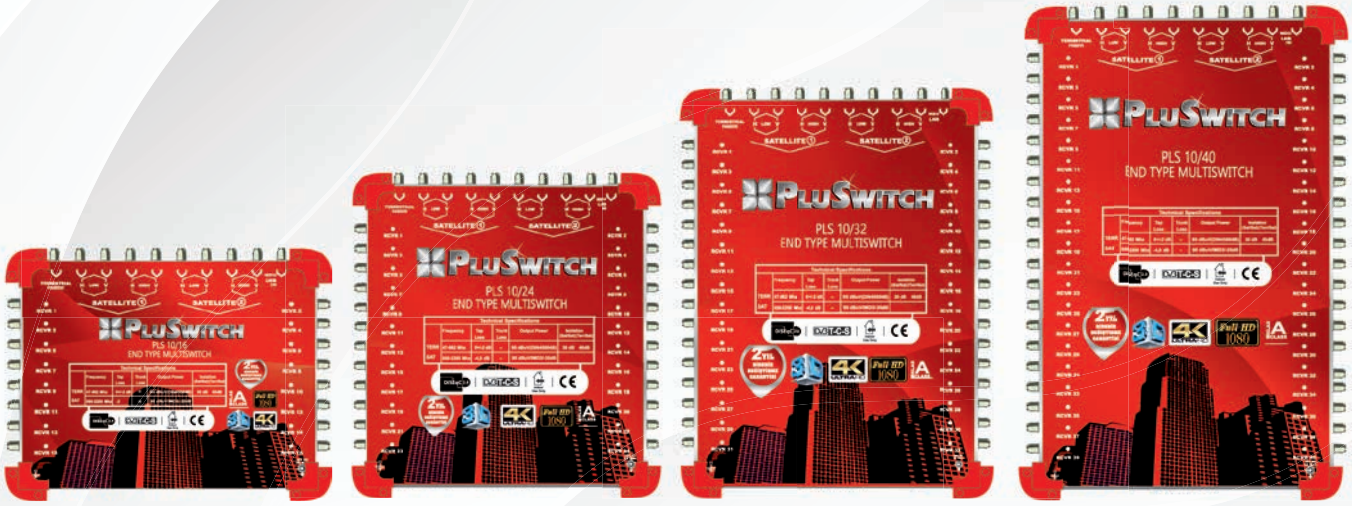
DMS 10/72 S
DMS 10/72 K

DMS 10/80 S
DMS 10/80 K

KOMSIS

EKO Series PLS Multiswitch

PLUSWITCH



PLS 10/16 S
PLS 10/16 K

PLS 10/24 S
PLS 10/24 K

PLS 10/32 S
PLS 10/32 K

PLS 10/40 S
PLS 10/40 K

2 YEAR WARRANTY

10 EKO PLS

Satellite & Terrestrial

Inputs	8 Uydu +1 1 Terrestrial	
Outputs	8 Satellite +1 Plus (for Cascade Models)	
	16,24,32,40	
Tap Output	TV	SAT
	47-862 MHz	950-2200MHz
Frequency Band	-25 dB	0 dB
Tap Loss	-4 dB	-6 dB
Trunk Loss		
Cascade Types)	40 dB (TV)	
Isolation	30 dB (SAT)	
Ports	30 dB	
Isolation		
Switching	100 dBuV (DIN45004B)	
Output Power	Pasif	
Terrestrial	95 dBuV (IMD2 -35dB)	
Output Power SAT	DiSEqC 1.0 / 2.0 SAT A	
Switching	13V/18V OKHz / 22KHz SAT A	
	Uyumlu /Compatible	
DVB-C / DVB-T / HDTV	Horizantal 47 mA	
Port Currents	Vertical 32 mA	
For Each User	SMPS 16V/2A	
LNB Supply		

1080p FULL HD 4K ULTRA HD

YERLİ ÜRETİM

MADE IN TURKEY

DVB T

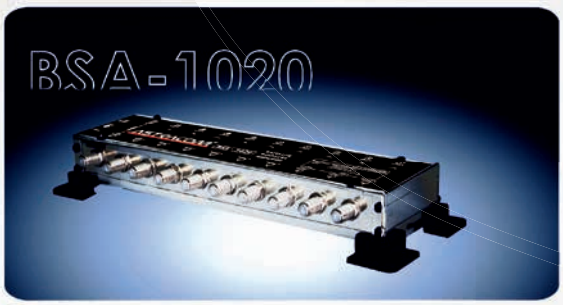
DiSEqC 2.0

CE

10 Series PLS Multiswitch

PLS 10/16 End-Type - PLS 10/16 Cascade
PLS 10/24 End-Type - PLS 10/24 Cascade
PLS 10/32 End-Type - PLS 10/32 Cascade
PLS 10/40 End-Type - PLS 10/40 Cascade

Satellite IF Amplifiers



MODEL	BSA 1020 - BSA1720	
Frekans Bandı/ Frequency Band		950-2250 MHz
	Kazanç/Gain	
	Üst Band/High Band	20 dB
	Alt Band/Low Band	15 dB
Kazanç Hata Payı/ Gain Error Range		+/-1 dB
Gürültü Figürü/Noise Figure		3 dB
Akım/Current		50 mA (450 mA Toplam)

MODEL	BSA 1020
• 9 Inputs, 9 Outputs,1 Terrestrial In,1 Terrestrial Out Amplifiers	
• Satellite Band Booster Amplifier overcomes cable and distribution losses with it's 5 dB slope,20 dB gain.It also has level adjustment.	
• Esternal SMPS power supply.	

MODEL	BSA1720
• 16 Inputs, 16 Outputs,1 Terrestrial In,1 Terrestrial Out Amplifiers	
• Satellite Band Booster Amplifier overcomes cable and distribution losses with it's 5 dB slope,20 dB gain.It also has level adjustment.	
• Esternal SMPS power supply.	

ACTIVE SATELLITE & TERRESTRIAL TAP-OFF

- 1 Karasal Yayın Girişi/1 Terrestrial Input
- 9 Uydu IF Yayın Girişi/9 Satellite IF Inputs
- 1 Karasal & 9 Uydu IF Kaskat Çıkışı/ 1Terrestrial & 9 Satellite IF Cascade Outputs
- 2 Terrestrial & 18 Uydu Yankol Çıkış/ 2 Terrestrial & 18 Satellite IF Tap Off Satellite (KYA-10/20)
- 1 Karasal & 9 Satellite IF Tap OffffffF Outputs/ 1 Terrestrial &9 Satellite IF Tap-OffFf Outputs(KYA-10/20)
- Kayıfsız sinyal Bölme/Signal Splitting without signal loss
- Kaskat Kullanım Özelliği/Cascadable Operation
- Harici Güç Kaynağı 16V/1A / External Power Supply 16V/1A

MODEL	KYA-10/20	KYA-10/10
	FULL BAND TAP-OFF AMPLIFIER	
Frekans Bandı/Frequency Band	950-2200 Mhz (SAT)	48-862 MH
Geçiş Kaybı/Insertion Loss	-1.2 dB	-0,5 dB
Yan Kol Kazancı/Tap Gain	+3 dB	+3 dB
Izolasyon/Isolation	SAT-SAT : 39 dB SAT-TERR : 42 dB TERR-SAT : 42 dB	
Çalışma Gerilimi/Supply Voltage	+16V DC	
Supply Current/Çalışma Akımı	430mA	
Ölçüler/Dimension	230x130x35 (mm)	

TSA - 3535 Full Band Amplifier

Frequency Band	47-2200 MHz	
Gain	TV	SAT
	35dB	40dB
Output Power	118 dBuV	120 dBuV
Gain Linearity	+/- 1 dB	
Noise Figure	< 6 dB	
Gain Adjustment	20 dB	
Curve Adjustment	18 dB	15 dB
Test Connector Adjustment	- 20 dB	
Dimensions	214 x 110 x 55	

17 Series MX Multiswitch

17MX

3 YEARS Warranty

Satellite & Terrestrial

Inputs		
	8 SAT +1 (10 Series) 16+1 (17 Series)	
Outputs	1 Terrestrial	
	8 Satellite+1 Plus (16+1 17 Series) (for Cascade Models)	
Tap Output		
	8,16,20,24,32,40,48,56,64,72,80,100,120	
Frequency Band	TV	SAT
Tap Loss	47-862 MHz	950-2200MHz
Trunk Loss	0+/-2 dB	0 dB
Cascade Types)	-4 dB	-6 dB
Isolation		
Ports	40 dB (TV)	
Isolation	30 dB (SAT)	
Switching	30 dB	
Output Power		
Terrestrial	100 dBuV (DIN45004B)	
Output Power SAT	Internal Ga-As Mesfet Amplifier	
DiSEqC / Switching	95 dBuV (IMD2 -35dB)	
	DiSEqC 1.0 / 2.0 SAT A	
DVB-C / DVB-T / HDTV	13V/18V 0KHz / 22KHz SAT A	
Port Currents	Compatible	
For Each User	Horizantal 47 mA	
LNB Supply	Vertical 32 mA	
	SMPS 16V/2A	

17 Series MX Multiswitch

MX 17/ 8 End-Type - MX 10/ 8 Cascade
MX 17/12 End-Type - MX 17/12 Cascade
MX 17/16 End-Type - MX 17/16 Cascade
MX 17/20 End-Type - MX 17/20 Cascade
MX 17/24 End-Type - MX 17/24 Cascade
MX 17/32 End-Type - MX 17/32 Cascade

DiSEqC 2.0 Multiswitch
4 Satellite Input
Terrestrial and Camera Input

1080p FULL HD · 4K ULTRA HD · YERLİ ÜRETİM · MADE IN TURKEY · DVB T · DiSEqC 2.0 · CE

Camera Modulator Multiswitch

Thanks to the built-in TV Modulator
you do not need to use an external modulator
to connect a camera to your system.

- ***Microprocessor Controlled Design***
- ***Digital Channel Indicator***
- ***8 UHF Channel Option***
- ***PLL Controlled Channel Frequency***
- ***Fits PAL BG Standard***
- ***80 dBuV output power for each port***
- ***RCA Connectors for Audio & Video***

Camera Modulators

MM-2169

Model	Mini DSB UHF TV Modulatör	
Frekans Bandı	470-862 MHz	(C21 - C69)
Çıkışları	1 RF Çıkışı	F Tipi Dişi Konnektör
Girişler	1 RF Girişi (47 - 862 MHz)	F Tipi Dişi
	Video Girişi	RCA Konnektör
	Ses Girişi	RCA Konnektör
RF Geçiş Kaybı	-3.5 dB	-3.5 dB
Çıkış Seviyesi	80 dBuV	
RF Seviye Ayarı	20 dB	
Video Giriş Seviyesi	1 Vpp 75 Ohm	
Ses Giriş Seviyesi	500 mV 10k Ohm	
Display	2 Adet 7 Segment	
Kanal Ayarı	PLL Kontrollü	2 Adet Buton ile
Besleme Gerilimi	+5V DC 250 mA	Harici Adaptör
Mekanik Yapı / Housing	Elektrostatik Boyalı Metal Kutu	

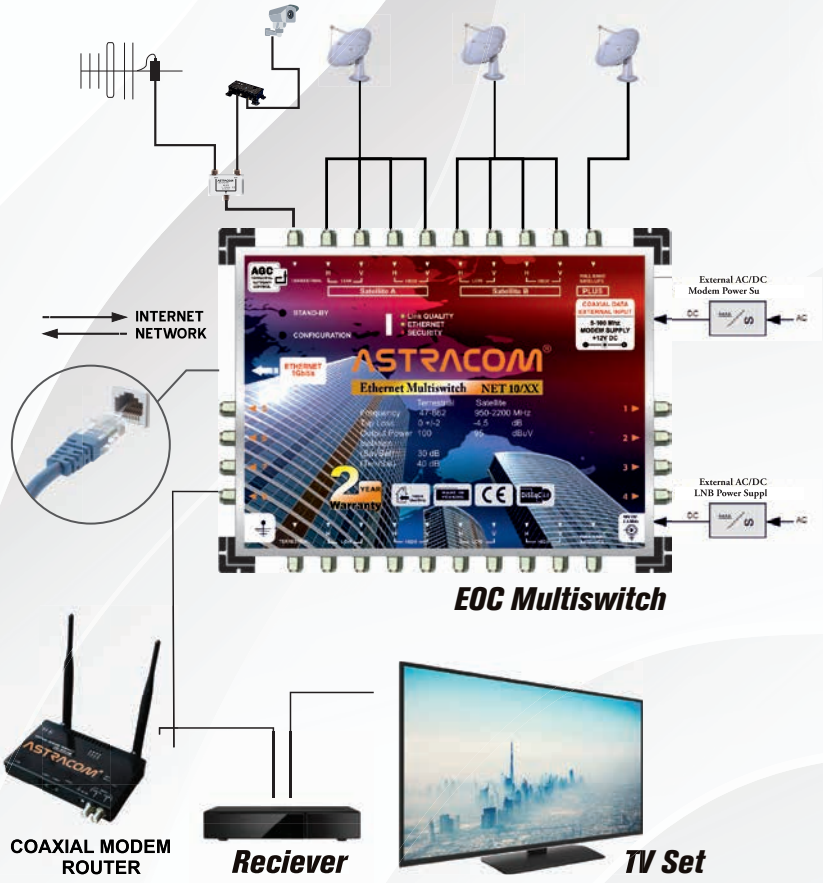
MK-1069

Model	MK 1069	
Frekans Bandı	168.25 - 855.25 MHz (S10-C69) 90 Kanal	
Çıkışları	1 RF Çıkışı	F Tipi Dişi Konnektör
Girişler	1 RF Girişi (47 - 862 MHz)	F Tipi Dişi
	Video Girişi	RCA Konnektör
	Ses Girişi	RCA Konnektör
RF Geçiş Kaybı	-3.5 dB	-3.5 dB
Çıkış Seviyesi	80 dBuV	
RF Seviye Ayarı	20 dB	
Video Giriş Seviyesi	1 Vpp 75 Ohm	
Ses Giriş Seviyesi	500 mV 10k Ohm	
Display	2 Adet 7 Segment	
Kanal Ayarı	PLL Kontrollü	2 Adet Buton ile
Besleme Gerilimi	+5V DC 250 mA	Harici Adaptör
Mekanik Yapı / Housing	Elektrostatik Boyalı Metal Kutu	

KOMSİS

EoC Internet Distrubtion Systems

Ethernet over Coaxial



EOC Multiswitch

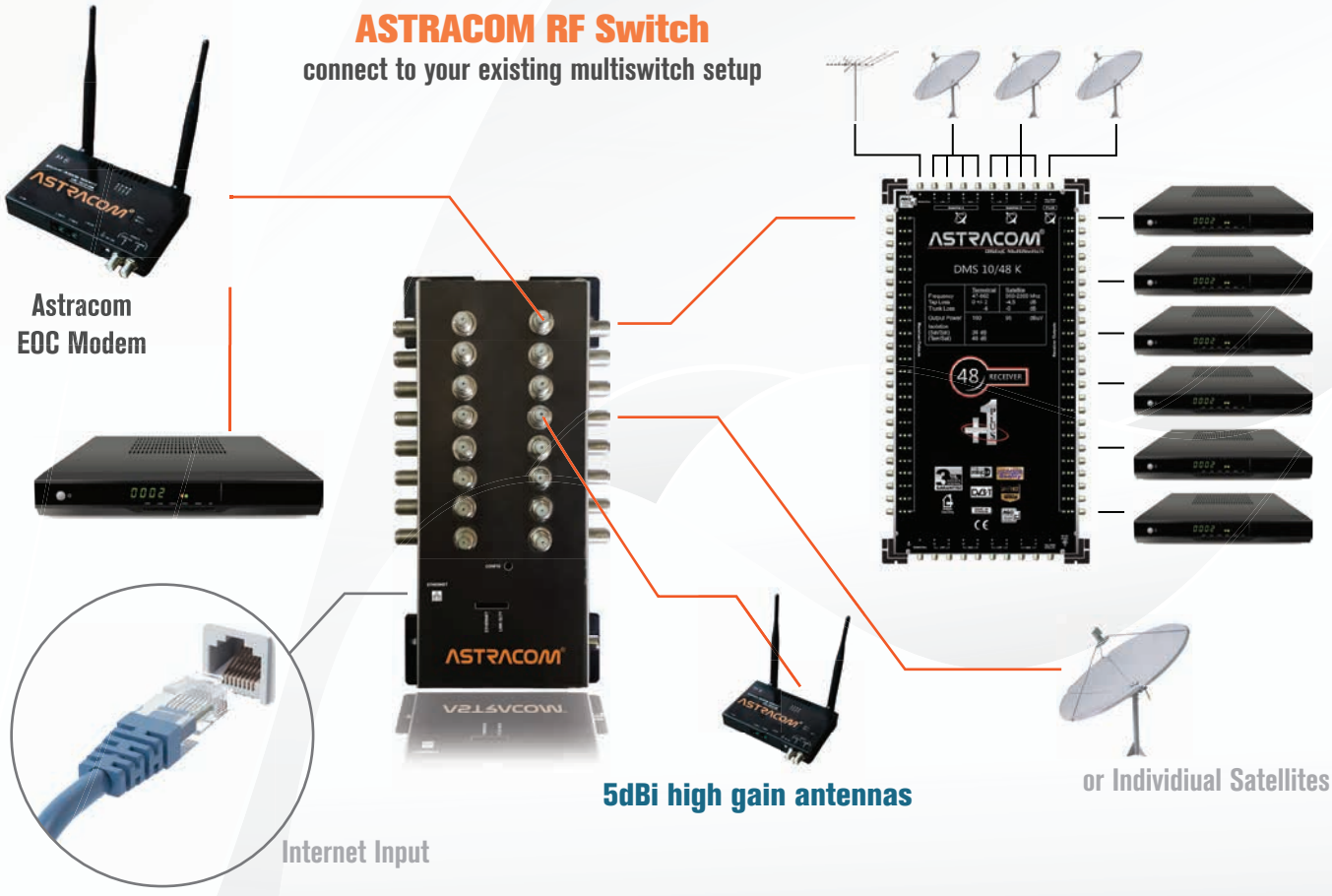
Inject Internet over your TV Signal

ASTRACOM EoC Multiswitch easily distibute internet signal by using your existing coaxial infustructure without extra cable work.

You can even connect to your existing multiswitch setups!

ASTRACOM RF Switch

connect to your existing multiswitch setup



Routers

Stronger Wifi

MD-EOC-302G Router 300Mbit

Coaxial to Ethernet Speed: 1 Gbit/s
GBit Tranciever: Mevcut
RF Ports: 2
Input: 5 -2150 MHz
Output : 126 – 2150 MHz
Impedance: 75 Ohm
Connector Type: F-Female
RF Ports DC Pass: Yes
In&Out Insertion Loss: -2dB uV
Modulation Type: OFDM
Indicators: ETH, LINK QUALITY
Operating Temps: 0 – +45
Storage Temps: -40 – +70

Wi-Fi Section
CPU: 300 Mbps
Bandwdith: 20 / 40 MHz
RAM: DDR2 512 MB
Flash: 8 MB
LAN PORTS: 2
WAN PORT: 1 (Koaksiyel) / (Coaxial)
LEDS: WiFi, WAN, LAN Ports
Dimensions: 110 x 155 x 24 mm
(170mm antenna)
Standard: IEEE 802.3, 802.3u,
802.11b, 802.11g and 802.11n

MD-EOC-302 Router 300Mbit

Coaxial to Ethernet Speed: 150Mbit/s
GBit Tranciever: Yes
RF Ports: 2
Input: 5 -2150 MHz
Output : 126 – 2150 MHz
Impedance: 75 Ohm
Connector Type: F-Female
RF Ports DC Pass: Yes
In&Out Insertion Loss: -2dB uV
Modulation Type: OFDM
Indicators: ETH, LINK QUALITY
Operating Temps: 0 – +45
Storage Temps: -40 – +70

Wi-Fi Section
CPU: 300 Mbps
Bandwdith: 20 / 40 MHz
RAM: DDR2 512 MB
Flash: 8 MB
LAN PORTS: 2
WAN PORT: 1 (Coaxial)
LEDS: WiFi, WAN, LAN Ports
Antennas: 5 dBi High Gain Dual Antenna
Dimensions: 110 x 155 x 24 mm
(170mm antenna)
Standard: IEEE 802.3, 802.3u,
802.11b, 802.11g and 802.11n

MD-EOC-301 Router 150Mbit

Coaxial to Ethernet Speed: 150 Mbit/s
GBit Tranciever: Mevcut
RF Ports: 2
Input: 5 -2150 MHz
Output : 126 – 2150 MHz
Impedance: 75 Ohm
Connector Type: F-Female
RF Ports DC Pass: Evet / Yes
In&Out Insertion Loss: -2dB uV
Modulation Type: OFDM
Indicators: ETH, LINK QUALITY
Operating Temps: 0 – +45
Storage Temps: -40 – +70

Wi-Fi Section
CPU: 300 Mbps
Bandwdith: 20 / 40 MHz
RAM: DDR2 512 MB
Flash: 8 MB
LAN PORTS: 2
WAN PORT: 1(Coaxial)
LEDS: WiFi, WAN, LAN Ports
Antenna: 3 dBi
Dimensions: 110 x 155 x 24 mm
(90mm antenna)
Standard: IEEE 802.3, 802.3u,
802.11b, 802.11g and 802.11n

ETH-401 PoE Router 300Mbit

Wi-Fi Section
CPU: 300 Mbps
Bandwdith: 20 / 40 MHz
RAM: DDR2 512 MB
Flash: 8 MB
LAN PORTS: 4
WAN PORT: 1
LEDS: WiFi, WAN, LAN Ports
Antennas: 5 dBi High Gain Dual Antenna
Dimensions: 110 x 155 x 24 mm
(170mm antenna)
Standard: IEEE 802.3, 802.3u,
802.11b, 802.11g and 802.11n

PoE Output: 24V 1A (WAN PORT)
DC Supply Input: 24V 1A

Operating Temps: 0 – +45
Storage Temps: -40 – +70

x2

Dual Antenna Design

EoC Switches

GBit RF-Switch 16 Port

Interface: 1x Gbit
RF Port Specs:
Quantity: 16 Input – 16 Output
Frequency Band:
126 – 2150 MHz High Pass
5 – 100 MHz Low Pass
Internal Splitter: 16 Port
Impedance: 75 Ohm
Connector Type: F – female
RF Port DC Pass: YES
Modulation Type: OFDM
Output Power: 80 dB uV
Mode: MASTER
Slave (Router) Support: 16 Nodes

Power Supply Requirements: 12V – 1A
Indicators:
ETH (Ethernet), LQ (Link Quality)
Operating Temp:
0 - +45 Degree Celcius
Storage Temp:
-40 - +70 Degree Celcius
Housing: Electro Static Paint Metal Box
Dimensions: 108 x 225 x 50 mm

RF-Switch 16 Port

Interface: 100MBit
RF Port Specs:
Quantity: 16 Input – 16 Output
Frequency Band:
126 – 2150 MHz High Pass
5 – 100 MHz Low Pass
Internal Splitter: 16 Port
Impedance: 75 Ohm
Connector Type: F – female
RF Port DC Pass: YES
Modulation Type: OFDM
Output Power: 80 dB uV
Mod: MASTER
Slave (Router) Support: 16 Nodes

Power Supply Requirements: 12V – 1A
LED Indicators:
ETH (Ethernet), LQ (Link Quality)
Operating Temp:
0 - +45 Degree Celcius
Storage Temp:
-40 - +70 Degree Celcius
Housing: Electro Static Paint Metal Box
Dimensions:108 x 225 x 50 mm

GBit RF-Switch 8 Port

Ethernet Interface: 1x Gbit
RF Port Specs:
Quantity: 8 Giriş Input – 8 Output
Frequency Band:
126 – 2150 MHz High Pass
5 – 100 MHz Low Pass
Internal Splitter: 8 Port
Impedance: 75 Ohm
Connector Type: F – female
RF Port DC Pass: YES
Modulation Type: OFDM
Output Power: 80 dB uV
Mod: MASTER
Slave (Router) Support: 8 Nodes

Power Supply Requirements: 12V – 1A
LED Indicators:
ETH (Ethernet), LQ (Link Quality)
Operating Temp:
0 - +45 Degree Celcius
Storage Temp:
-40 - +70 Degree Celcius
Housing: Electro Static Paint Metal Box
Dimensions: 108 x 160 x 50 mm

RF-Switch 8 Port

Ethernet Interface: 100MBit
RF Port Specs:
Quantity: 8 Input – 8 Output
Frequency Band:
126 – 2150 MHz High Pass
5 – 100 MHz Low Pass
Internal Splitter: 8 Port
Impedance: 75 Ohm
Connector Type: F – female
RF Port DC Pass: YES
Modulation Type: OFDM
Output Power: 80 dB uV
Mod: MASTER
Slave (Router)Support: 8 Nodes

Power Supply Requirements: 12V – 1A
LED Indicators:
ETH (Ethernet), LQ (Link Quality)
Operating Temp:
0 - +45 Degree Celcius
Storage Temp:
-40 - +70 Degree Celcius
Housing: Electro Static Paint Metal Box
Dimensions: 108 x 160 x 50 mm

GBit EoC-Multiswitch

8-16-24-32 Port

1 Gbit/s Ethernet Interface
100 Mhz Coaxial G.hn Modem
IEEE 9960-9961 Standard Compatible
Terrestrial-Internet Isolation Filter
RF Connection Quality LED Indicator
Ethernet Connection Led Indicator
Configuration Button
Security LED
DC 9-12V / 1A External Power supply

Coaxial to Ethernet Converter

MD-EOC-101G

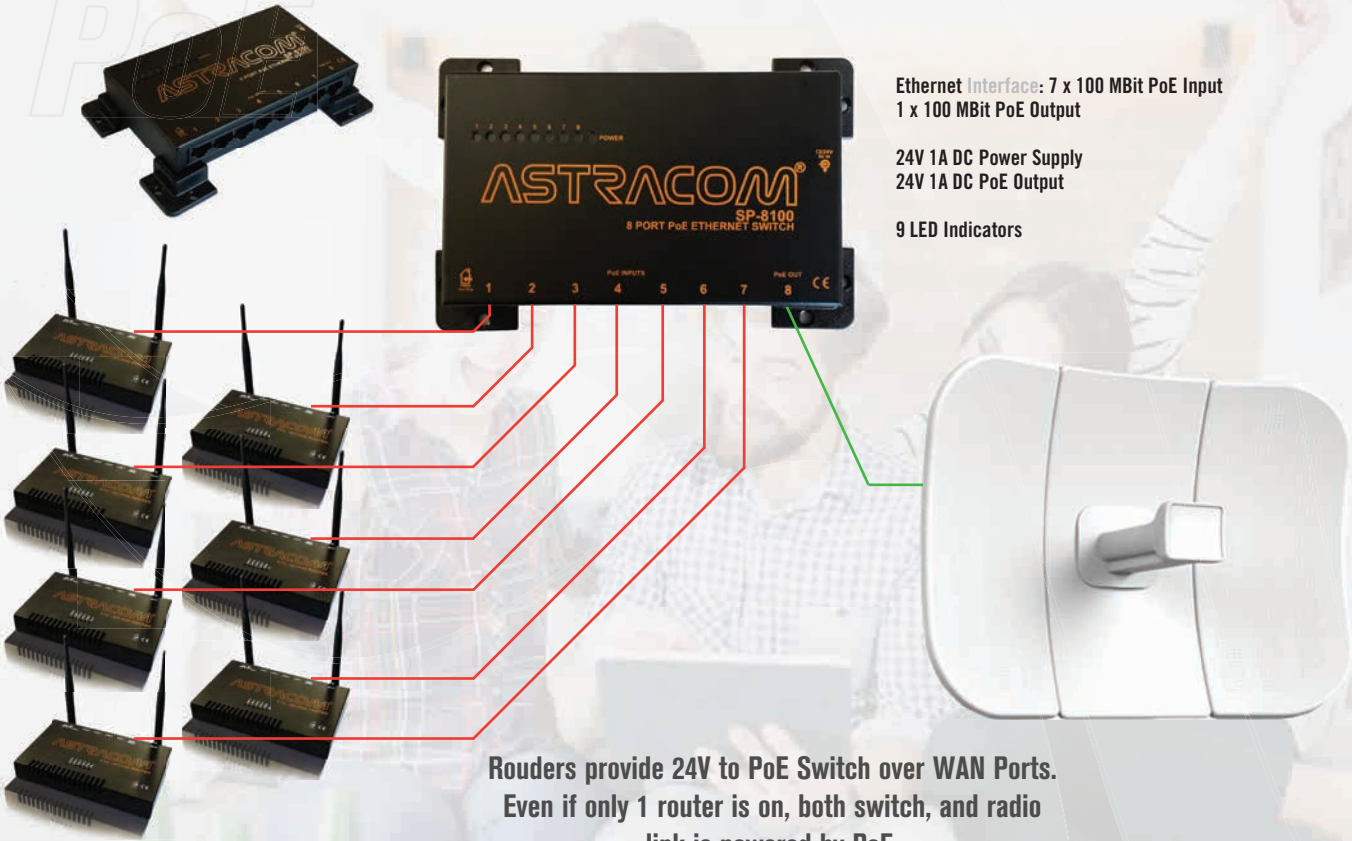
Ethernet Interface: 1x Gbit / 100MBit
RF Ports Specs:
Quantity: 2 (Input & Output)
Input Port Frequency: 5 – 2150 MHz (ETH + TV + SAT)
Output Port Frequency: 126 – 2150 MHz (TV + SAT)
Giriş & Çıkış Kaybı /IN&OUT Insertion Loss: -2 dB
Impedance: 75 Ohm
Connector Type: F – Female
RF Port DC Pass: YES
Output Power: 100 dB uV (Master Mode)

Modulation Type: OFDM
Mode: Master / Slave
Housing:
Electro Static Paint Metal Box
Power Supply: 12V – 1A
Led Indicators:
ETH (Ethernet), LQ (Link Quality)
Operating Temp:
0 - +45 Degree Celcius
Storage Temp:
-40 - +70 Degree Celcius
Dimensions: 68 x 82 x 25 mm

MD-EOC-101

Power over Ethernet

SP-8100 PoE Switch 8 Port



Ethernet Interface: 7 x 100 MBit PoE Input
1 x 100 MBit PoE Output

24V 1A DC Power Supply
24V 1A DC PoE Output

9 LED Indicators

Rouders provide 24V to PoE Switch over WAN Ports.
Even if only 1 router is on, both switch, and radio link is powered by PoE.

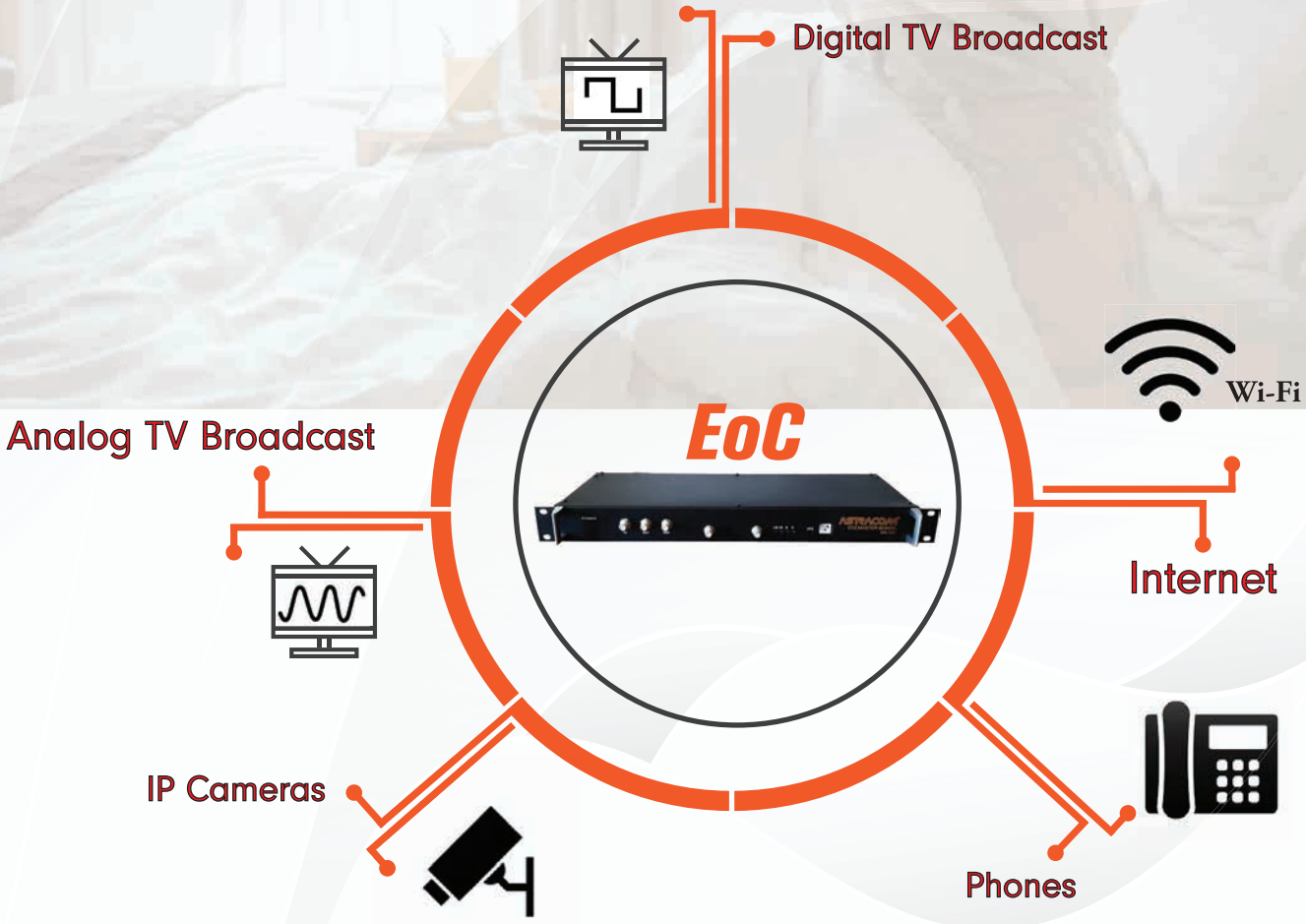
MD-401 PoE Router

Internet & TV Systems for Hotels

INTERNET AND DIGITAL TV BROADCAST ON THE SAME CABLE

Distribute Internet and Digital QAM TV Boradcast over you existing Coaxial Cable Infastructure and remove your CAT5/CAT6 cable installation expenses

What can you distribute using the existing coaxial cable infrastructure?



With EOC (Ethernet over Coaxial) technology, Internet, TV, IP Cameras, and Voice over IP (VoIP) systems can work simultaneously over the same Coaxial TV cables

EoC MasterBoard MA-100

Arayüzler /Interfaces: 1x Gbit
3x RF Diplexer Filter
1x RF Output Port
1x RF Output Test Port

Göstergeler /Indicators: Link Quality Led (x2)
Security Led (x1)
Ethernet Activity Led (x1)
Power LED (x1)

ELECTRICAL SPECIFICATIONS

Frekans Bandı / Frequency Band	
Master Board RF Output	5-100 Mhz
Diplexer Filter Output	5-862 MHz
Filter isolations	-35 dB
Filter Loss	-1,5 dB
RF Output Power:	110dBuV
Impedance:	75 Ohm
RF Connectors:	F-Female (Dişi)
Power Supply:	Internal AC/DC Converter
Power Supply Input:	110-220V AC 50-60 Hz
Mekanik Yapı / Housing:	19" 1U Rack Type Housing

EoC Repeater RMA-100

Arayüzler /Interfaces:
Downstream:
1x GBit Ethernet Port
1x Diplexer Filter
1x EoC RF Output

Upstream:
1x Diplexer Filter
1x GBit Ethernet Port
1x Master EOC RF Output
1x Master EOC RF Test Port

Göstergeler /Indicators:
Upstream:
Link Quality Led (x2)
Security Led (x1)
Ethernet Activity Led (x1)

Downstream:
Link Quality Led (x2)
Security Led (x1)
Ethernet Activity Led (x1)

ELECTRICAL SPECIFICATIONS

Frekans Bandı / Frequency Band	
Master Board RF Output	5-100 Mhz
Diplexer Filter Output	5-862 MHz
Filter isolations	-35 dB
Filter Loss	-1,5 dB
RF Output Power:	110dBuV
Impedance:	75 Ohm
RF Connectors:	F-Female (Dişi)
Power Supply:	Internal AC/DC Converter
Power Supply Input:	110-220V AC 50-60 Hz
Mekanik Yapı / Housing:	60 x 190 x 330mm Housing

MD-EOC-301 Router 150Mbit

Koaksiyelden Ethernete Hız/ Coaxial to Ethernet Speed: 150 Mbit/s	Router-WiFi Bölümü / Wi-Fi Section
Gbit Ethernet Alıcı /GBit Tranciever: Mevcut	İşlemci / CPU: 300 Mbps
RF Portları / RF Ports: 2	WiFi Bantgenişliği /Bandwdith: 20 / 40 MHz
Giriş / Input: 5 -2150 MHz	Bellek / RAM: DDR2 512 MB
Çıkış / Output : 126 – 2150 MHz	Flash: 8 MB
Empedans / Impedance: 75 Ohm	LAN PORTLARI /LAN PORTS: 2
Konnektör Tipi / Connector Type: F-Female	WAN PORTU /WAN PORT: 1 (Koaksiyel) / (Coaxial)
RF Ports DC Pass: Evet / Yes	LEDLER / LEDS: WiFi, WAN, LAN Ports
Giriş-Çıkış Kaybı / In&Out Insertion Loss: -2dB uV	Anten /Antenna: 3 dBi
Modulasyon Tipi / Modulation Type: OFDM	Boyut / Dimensions: 110 x 155 x 24 mm (90mm antenna)
Led Göstergeleri /Indicators: ETH, LINK QUALITY	Standard: IEEE 802.3, 802.3u, 802.11b, 802.11g and 802.11n
Çalışma Sıcaklığı / Operating Temps: 0 – +45	
Saklama Sıcaklığı / Storage Temps: -40 – +70	

Headend Systems

CS-5000 ES/SSB SINGLE SIDE BAND

32 Channel ES / SSB

40 Channel ES / SSB

Modülasyon/*Modulation*	Tek Yan Band/*Single Side Band*
Modülatör Sayısı/*Modulator Quantity*	Max.8 Adet/*Max. 8 Unit*
Tv Standardı/Tv Standard	PAL B/G
Çalışma Bandı/*Opertaion Band*	Full TV Band 48-862 Mhz AGILE System (Kanal Filtresi Gerektirmez) *(Channel filter not required.)*
Resim/*Image* Ses Taşıyıcı Oranı/*Audio Carrier Ratio*	13 dB
C/N Oranı/*C/N Ratio*	>60 dB
Çıkış Kanal Seçimi/ *Output Channel Selection*	PLL (Mikro İşlemci Kontrollü) *(Microprocessor controlled)*
Kanal Göstergesi/*Channel Display*	İki Kademeli LED Display *(2 Step LED Display)*
Çıkış Seviye Ayarı/ *Output Level Adjustment*	-20 dB
Eğim/*Equalizer Level Adjutment*	-20 dB
Birleşik Çıkış Seviyesi/ *Combinet Output Level(DIN 45004B)*	124 dBuV(Power Amplifier ile) *(with Power Amplifier)*
Birleşik Çıkış Seviyesi/ *Combined Output Level*	105 dBuV (Power Amplifier Level) *(with Power Amplifier)* 40 Kanal -5 dB Eğim Amplifier ile)
Audio Giriş/*Audio Input*	500mV
Video Giriş/*Video Input(Composite)*	1 Vpp 75 Ohm

CS-5000 ED/DSB DUAL SIDE BAND

16 Channel ES / DSB

24 Channel ES / DSB

Modülasyon/*Modulation*	Çift Yan Band/*Double Side Band*
Modülatör Sayısı/*Modulator Quantity*	Max.8 Adet/*Max. 8 Unit*
Tv Standardı/Tv Standard	PAL B/G
Çalışma Bandı/*Opertaion Band*	Full TV Band 48-862 Mhz AGILE System (Kanal Filtresi Gerektirmez) *(Channel filter not required.)*
Resim/*Image* Ses Taşıyıcı Oranı/*Audio Carrier Ratio*	13 dB
C/N Oranı/*C/N Ratio*	>60 dB
Çıkış Kanal Seçimi/ *Output Channel Selection*	PLL (Mikro İşlemci Kontrollü) *(Microprocessor controlled)*
Kanal Göstergesi/*Channel Display*	İki Kademeli LED Display *(2 Step LED Display)*
Çıkış Seviye Ayarı/ *Output Level Adjustment*	-20 dB
Eğim/*Equalizer Level Adjutment*	-20 dB
Birleşik Çıkış Seviyesi/ *Combinet Output Level(DIN 45004B)*	124 dBuV(Power Amplifier ile) *(with Power Amplifier)*
Birleşik Çıkış Seviyesi/ *Combined Output Level*	105 dBuV (Power Amplifier Level) *(with Power Amplifier)* 40 Kanal -5 dB Eğim Amplifier ile)
Audio Giriş/*Audio Input*	500mV
Video Giriş/*Video Input(Composite)*	1 Vpp 75 Ohm

- Headend systems are used for distribution applications of broadcasts received from different sources such as digital satellite, internal video broadcast, security cameras, in central satellite/TV distribution systems.
- Applies to all TV Standards.
- These are modular systems, each can be swapped individually.
- In case of malfunction, defected unit does not affect other channels.
- It provides easy use with microprocessor-controlled channel selection.
- A/V Inputs are protected. Power Amplifier provides strong output signal, and Filter Combiner Module provides lossless combination options.
- With the grouper options, it is possible to group from 2 channels to 10 channels.
- Provides high image quality on wide networks with channel filters designed for professional operations
- It is produced in two different groups, single side band and dual side band, with 19 inch rack cabinets or wall mounting feet.

QAM Headend Systems

QPSK / 8 PSK-QAM MODULATOR

Frequency Band	950 - 2200 MHz	Data Encoding	MPEG Standards
Input Signal	QPSK / 8PSK	DiSEqC Interface	2.0
Output Signal	256 QAM	LNB Power	13/18V 1A
Max. Symbol Rate	52 Mbps	USER Interface	USB 2.0 / PC Interface Windows

QAM HEAD-END

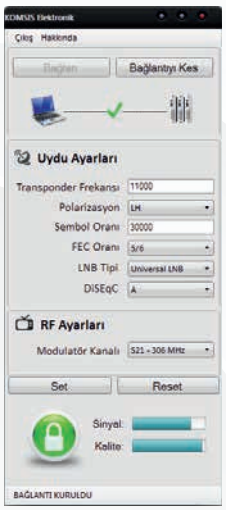
- QAM modulation digital head-end
- Modular design (3U)
- 19" Rack compatible
- 8x transmodulator on single group
- Option to combine more than one group (with Filter Combiner)
- Internet Distribution Module (Optional)
- High power output amplifier

Modulation Standard	DVB-C J.83 A/AC20
Max. QAM Mapping	256 QAM
Input Signal	MPEG / SPI Parallel
Max. Input Data Rate	52 Mbit/s
Output Signal	QAM IF Output
Data Recovery	YES
Output Signal Bandwidth	8 MHz
Symbol Rate	6900
C/N Ratio	-55 dBi

UPCONVERTOR PATH

Technology	Agile Full Band
Frequency Band	300 - 862 MHz
Channel Spacing	8 MHz
Output Level	92 dBuV
Level Adjustment	-20 dB
C/N Ratio	-52 dB
RF Input Interface	48 - 862 MHz

TRANSMODULATOR



GA-3400

Distribution Amplifier

Frequency Band	48-862 MHz
Gain	34 dB
Output Level	(DIN45004B) 118 dBuV
Gain Linearity	+/- 1 dB
Noise Figure	< 6 dB
Gain Level	20 dB
Curve Level	20 dB
Test Connector Level	- 20 dB
Reflection Loss (75 Ohm)	< 12 dB
Dimensions	214 x 110 x 55

Power Supply

Operation Range:	120-250V
Power	55 W
Output Voltage:	+5 V

Amplifier

Frequency Band	48-862 MHz
Gain	20 dB
Frequency Linearity	+/- 1 dB
Output Level	118 dBuV
Noise Figure	< 5 dB
Gain Adjustment	0-20 dB
Reflect Loss	<- 12 dB
Impedance	75 Ohm
Stabilizer	20 dB

Combiner

Frequency Band	48-862 MHz
Combine Loss	-10 dB
Frequency Loss	+/- 1 dB
Reflect Loss	<- 12 dB
Impedance	75 Ohm

GA-3215

Distribution Amplifier

Frequency Band	48-862 MHz
Gain	32 dB ileri yön 15 dB geri yön
Output Level	(DIN45004B) 118 dBuV
Gain Linearity	+/- 1 dB
Noise Figure	< 6 dB
Gain Level	20 dB
Curve Level	20 dB
Test Connector Level	- 20 dB
Reflect Loss (75 Ohm)	< 12 dB
Dimensions	214 x 110 x 55

KOMSIS

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Professional Satellite Systems

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