



DOCSIS 4.0

10G:

The Next Great
Leap in Broadband

CATV Accessories

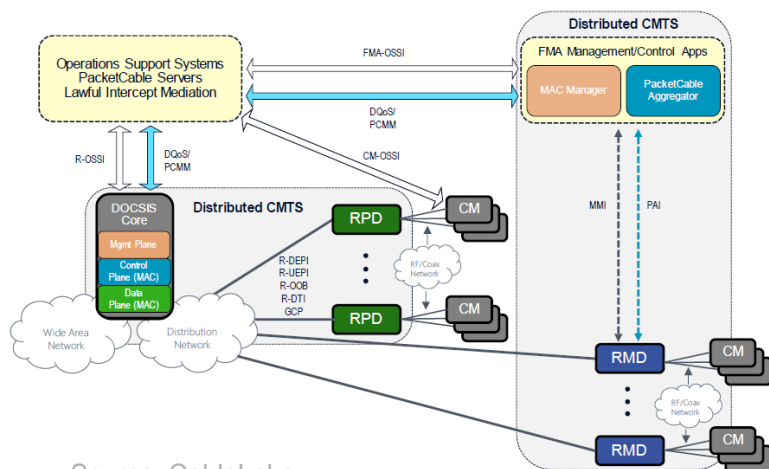
*Soontai – a worldwide well-known manufacturer of RF components;
- a trusted partner, provide the better choice for you.*

As explained on Cablelabs official website:

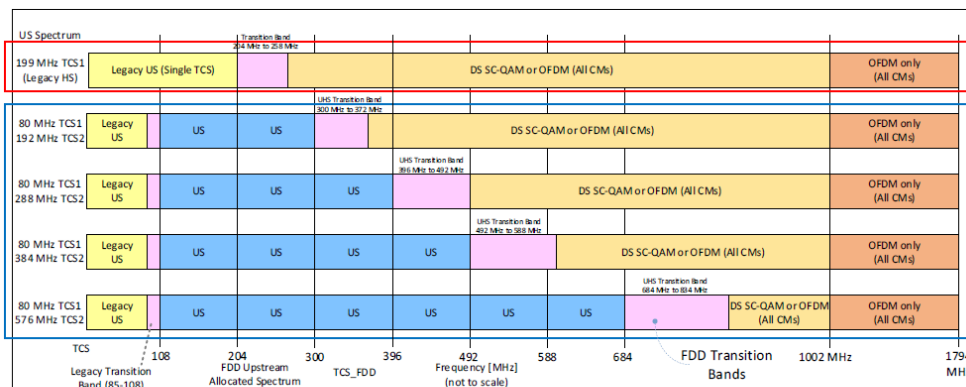
DOCSIS® 4.0 technology

DOCSIS 4.0 technology supports the next generation of cable hybrid fiber coaxial cable (HFC) network broadband, providing symmetrical multi-gigabit speeds, while supporting high reliability, high security and low latency.

For more information please visit <http://www.cablelabs.com/technologies/docsis-4-0-technology>



Source: CableLabs



DOCSIS 3.1 High-Split Mode

DOCSIS 4.0 Mode

The Evolution of DOCSIS

	DOCSIS 1.0	DOCSIS 1.1	DOCSIS 2.0	DOCSIS 3.0	DOCSIS 3.1	DOCSIS 4.0
Highlights	Initial cable broadband technology, high speed internet access	Added voice over IP service, gaming, streaming	Higher upstream speed, capacity for symmetric services	Greatly enhances capacity, channel bonding, IPv6	Capacity and efficiency progression, OFDM, wideband channel	Symmetrical streaming and increased upload speeds
Bandwidth	860 MHz	860 MHz	860 MHz	1002 MHz	1218 MHz	1.8 GHz
Downstream Capacity	40 Mbps	40 Mbps	40 Mbps	1 Gbps	10 Gbps	10 Gbps
Upstream Capacity	10 Mbps	10 Mbps	30 Mbps	200 Mbps	1-2 Gbps	6 Gbps
First Specification Issue Date	1996	1999	2001	2006	2013	2019

- DOCSIS 4.0 specification effort initiated in early 2019
- Full duplex operation
- Downstream operation up to **1.8 GHz**
- 10x Faster Internet Speeds
- Low Latency Enabling the Future of Technology
- A Safe and Secure Connected Future
- Uncompromised Network Reliability



DOCSIS 4.0 CATV Accessories

10G:

The Next Great
Leap in Broadband

Meet the era of higher speed and wider bandwidth DOCSIS 4.0;
Challenge the following technologies, up to 1.8 GHz

1800 MHz	Isolation	Return Loss	Flatness	6kV Surge	PIM
204 / 258 MHz	Rejection	Insertion Loss	Slope	Group Delay	RFI Shielding

Soontai - a world-renowned manufacturer of CATV filters, isolators and RF components, with more than 25 years of professional technical experience, provides a full range of CATV accessories that meet the requirements of DOCSIS 4.0 and more.

Soontai - is your best trusted partner for DOCSIS 4.0 accessories





CATV FILTERS

*The world's first company that designed-out more than 16 kind of CATV filters curves.
The most complete range of filters series. Support your DOCSIS 4.0 needs!*



Various Filters and Curves

Soontai - Over 25 years design and manufacture experience in CATV Filters.

We provides the more than 16-type of filters construction designed capability and quickly customization service.



Trap



Low Pass



High Pass



Band Pass



Band Reject



Window



Double Band



Triple Band



Equalizer



Reverse Equalizer



Forward Path Band Attenuator



Return Path Band Attenuator



Forward Path Equalizer



Forward Path Equalizer



Return Path Band Attenuator + HPF



Forward Path Band Attenuator + HPF



Learn more, please visit <https://www.soontai.com/catv-products.htm>

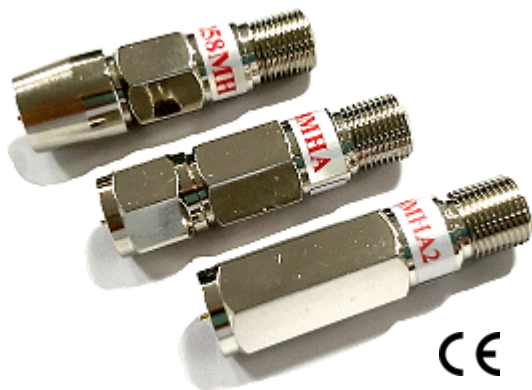




DOCSIS 4.0 Mini High Pass Filters

- Passband up to 2 GHz, Full Support DOCSIS 4.0!
- Excellent Return Loss, 258 MHz ~ 2 GHz
- Low Insertion Loss, 258 MHz ~ 2 GHz
- High Rejection, > 50 dB
- Compact Size

HPF-258M series



Learn more, please see

<https://www.soontai.com/HPF-M.html>

<https://www.soontai.com/HPF-MH.html>



DOCSIS 4.0 Mini Slope Equalizer

- Bandwidth up to 1.8 GHz, Full Support DOCSIS 4.0!
- Excellent Return Loss, 5 MHz ~ 1.8 GHz
- Very Flat Linearity Loss, 5 MHz ~ 1.8GHz
- Compact Size

EQ1-1810M series



SOONTAI TECH CO., LTD.



Learn more, please see
<https://www.soontai.com/EQ1.html>





DOCSIS 4.0 Reverse Slope Equalizer

- Bandwidth up to 1.8 GHz, Full Support DOCSIS 4.0!
- Excellent Return Loss, 5 MHz ~ 1.8 GHz
- Very Flat Linearity Loss, 5 MHz ~ 1.8GHz
- Compact Size

EQ2-1805M series



SOONTAI TECH CO., LTD.



Learn more, please see
<https://www.soontai.com/EQ2.html>





DIPLEXERS

***Soontai - Over 25 years design and manufacture experience in CATV diplexers.
The most complete range of diplexers series. Meet your DOCSIS 4.0 needs!***

Soontai- from DOCSIS 2.0, DOCSIS 3.0, DOCSIS 3.1 to DOCSIS 4.0, we continue to develop and design various multiplexers and provide technical support.

The product range has three series: CAN type, SMT type, and Die-casting type. Customization is welcome.

For more products information, please visit <https://www.soontai.com/boc-products.htm>



SOONTAI TECH CO., LTD.



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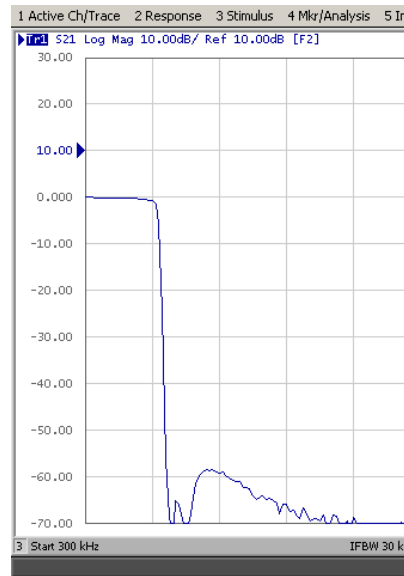
SOONTAI





DOCSIS 4.0 204/258 Diplexer

- Passband up to 2 GHz, Full Support DOCSIS 4.0!
- Excellent Return Loss, 5 ~ 204 MHz & 258 MHz ~ 2 GHz
- Low Insertion Loss, 5 ~ 204 MHz & 258 MHz ~ 2 GHz
- High Rejection, > 50 dB
- Compact Size



Learn more, please see
<https://www.soontai.com/DPX1-CN.html>



ISOLATORS

Soontai provides state-of-the-art Isolators. We care your safety!



Isolators

Soontai - has a complete of high-voltage testing equipment, precision CNC lathes and production equipment, more than 6 years of professional experience in developing isolator, and obtained patents and laboratory testing certification.

The product is sold worldwide with more than 10 million pcs, and it is widely adopted by MSOs.

The product range is the most complete, from compact type, classic type to ultra-high voltage type, super wideband type, special type, and can also be customized.

For more detailed product information, please visit <https://www.soontai.com/isolators.htm>

1.8 GHz, Support DOCSIS 4.0!

Super wideband series

Compact series



SOONTAI

Classic series



B3 6kV series



SOONTAI TECH CO., LTD.



We also provide the following high performance accessories for CATV and DOCSIS 4.0 system testing:

Attenuators, DC blocks, Power Inserters, Surge Protectors, Terminators,...

Learn more, please visit <https://www.soontai.com/catv-products.htm>

Attenuators



DC Blocks



Power
Inserters



Terminators



F



Surge Protectors



SOONTAI

IEC





And more...

HP RF Components

Soontai - the trusted name in High Performance RF components
75 Ohm DOCSIS 4.0 --- 50 Ohm 5G, mmWave

75 Ohm RF Adapters

3 GHz
F, N

- Low Insertion Loss
- Excellent Return Loss : 20~30dB

N-type

3 GHz, RL 30dB
calibration grade



3 GHz, RL 30dB
calibration grade



F-type

3 GHz, RL 25dB



Push-on F
3 GHz, RL 20dB



3 GHz, RL 20dB

3 GHz
IEC, BNC

IEC to N



IEC to F



BNC to F





75 Ohm 3GHz Test Cables

Features:

- Up to 3GHz
- Very Low Loss
- Excellent Return Loss
- Meet ANSI/SCTE 99 2009 Pull Force
- Meet ANSI/SCTE 98 2009 Tightening Torque

Advantage:

- Suitable for Lab Used
- 100% QC
- Tier One Market Proof

Benefit :

- Cost-efficient



CC-7030106002-NM/FM



CC-7030106002-NM/FM



CC-7030106002-FM/FM

RL 25dB(min) @<2GHz

RL 23dB(min) @>2GHz

Calibration Kits

Features:

- Complete Parts
- Complete Specification
- Including Torque Wrench (50 Ohm kits)

Advantage:

- Suitable for most Network Analyzers
- Excellent reliability
- Tier One Market Proof

Benefit :

- Cost-efficient

The most complete impedance converters series,
18 kinds of styles!

Hot !



75 Ohm 3GHz



50 Ohm 8.5GHz / 26.5GHz



Hot !

New !



Y-type 50 Ohm 26.5GHz



Hot !

Torque Wrenches



SOONTAI TECH CO., LTD.

Contact Us

Europe, Middle East & Africa Ms. Vicky Chen vicky.chen@soontai.com

Americas, Asia-Pacific Ms. Stephanie Wang stephanie.wang@soontai.com

China, Taiwan Ms. Stephanie Wang stephanie.wang@soontai.com

SOONTAI TECH CO., LTD.

No.43, Huangong Rd., Yongkang Dist., Tainan City 710, Taiwan.

TEL: 886-6-2016969 FAX: 886-6-2013939

<http://www.soontai.com>



SGS ISO 9001
Certificate TW12/11128

About Soontai

Soontai, established in 1994, has become well-known for high quality 75 Ohm filter design and manufacturing. We have taken this extensive design experience to develop a line of 75 and 50 Ohm high performance RF accessories. Currently our products are used worldwide by MSOs (Multi Service Operators), IC design companies, Internet service providers, RF telecommunication /Set-top Box/Cable modem manufacturers, etc.

For more products information please visit

CATV Filters <http://www.soontai.com/filter.htm>

Isolators <http://www.soontai.com/isolators.htm>

High Performance RF Components – 50 Ohm / 75 Ohm

Cal kits, Cable Assemblies, Adapters, Attenuators,...

<http://www.soontai.com/hp-acf.htm>

