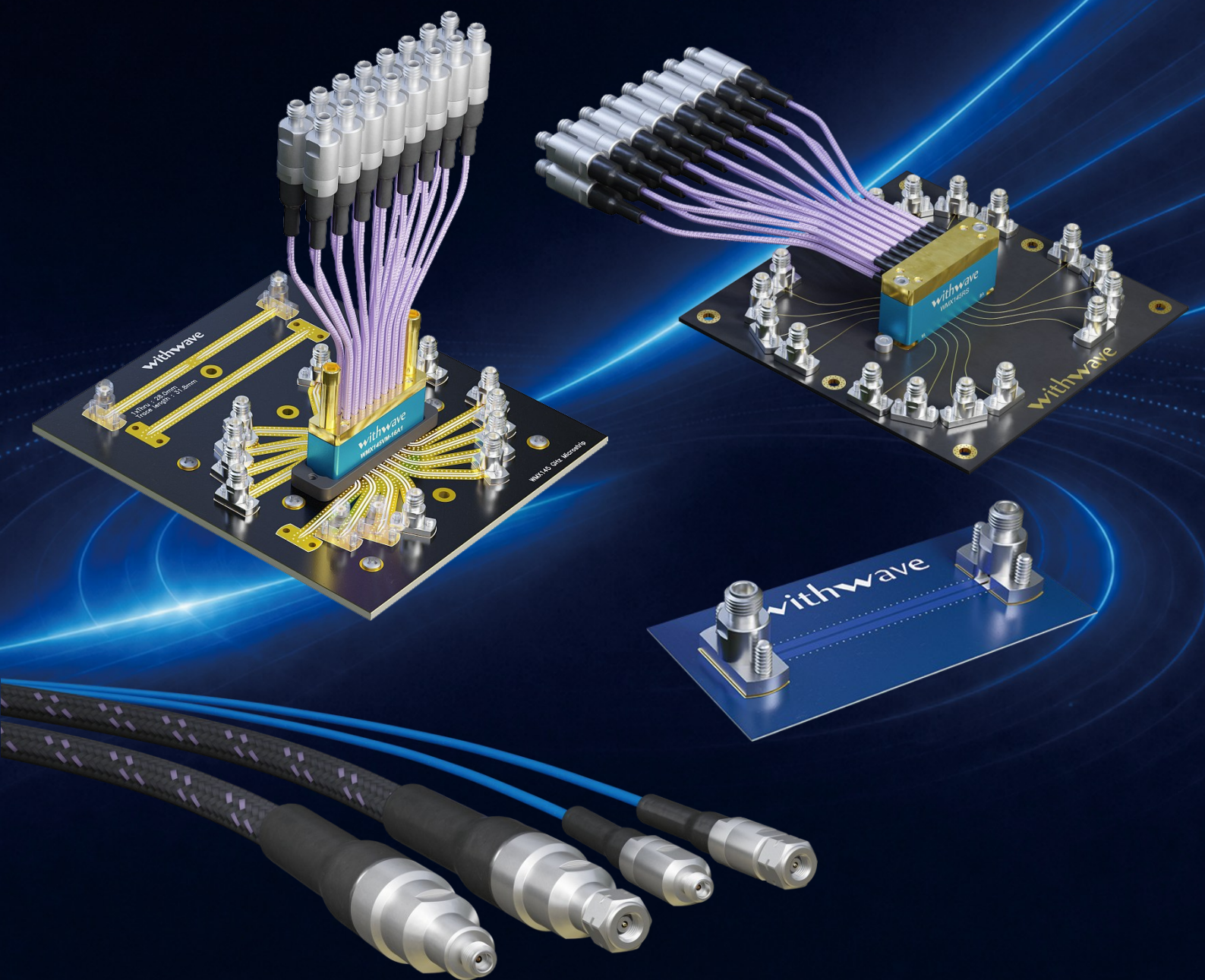


High Speed & Microwave Interconnect Solutions

Excellent Solutions up to 110 GHz & 145 GHz

224/448 Gbps(PAM 4)

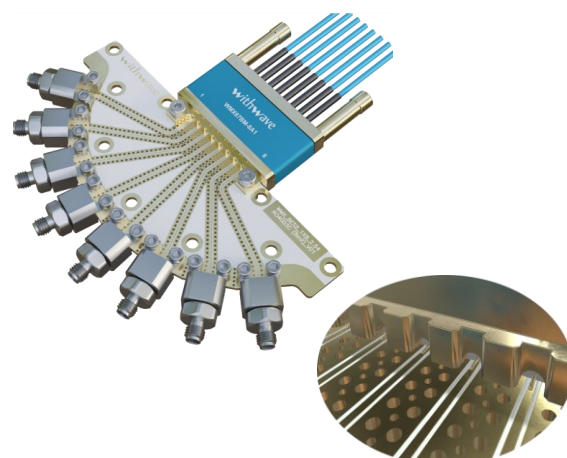
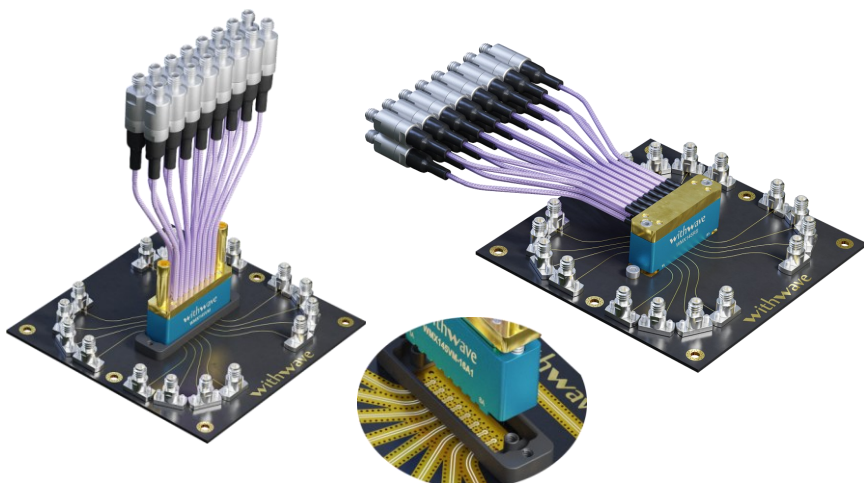


High Speed Multicoax

WMX Series

448 Gbps (PAM4)

112 Gbps (PAM4)



Vertical & Right Angle Mount

- DC to 20, 40, 50, 67, 110 & 145 GHz
- Solderless Type
- 1x4,1x8,2x8 Channel
- Pitch : 2.54 mm

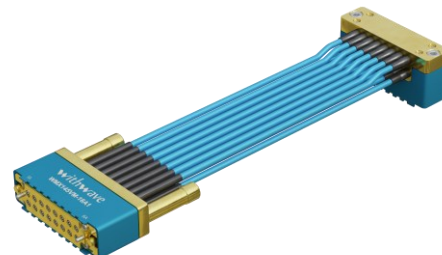
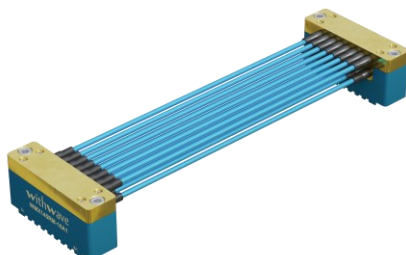
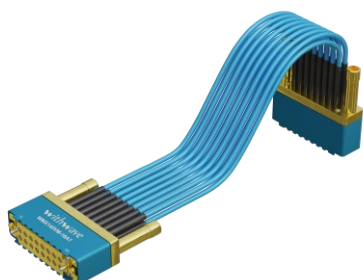
Edge Mount

- DC to 20, 40, 50 & 67 GHz
- Solderless Type
- 1x8 Channel
- Pitch : 2.54 mm

Specification		WMX20	WMX40	WMX50	WMX67	WMX110	WMX145
SERDS		PAM4	PAM4	PAM4	PAM4	PAM4	PAM4
Characterization		28 Gbps	56 Gbps	56 Gbps	112 Gbps	224 Gbps	448 Gbps
Freq. Range (Max)		20 GHz	40 GHz	50 GHz	67 GHz	110 GHz	145 GHz
Connector type		SMA	2.92 mm	2.4 mm	1.85 mm	1.0 mm	0.8 mm
PCB Mount type	Vertical	○	○	○	○	○	○
	Right-Angle	○	○	○	○	○	○
	Bored-Edge	○	○	○	○	-	-

Straight and Right angle jumper cables

- Straight to Straight
- Right angle to Right angle
- Straight to Right angle configuration



Test & measurement

Solderless Board Mount Connectors

448 Gbps (PAM4)

Vertical Mount

- DC to 40, 50, 67, 110 & **145 GHz**
- 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm & 0.8 mm
- Easy Installation & No Soldering required

Edge Mount

- DC to 40, 50, 67, 110 & **145 GHz**
- 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm & 0.8 mm
- Easy Installation & No Soldering required



Precision Adapters

0.8 mm to 1.0 mm

110 GHz



AD23M00MS1
(M to M)



AD23M00FS1
(M to F)



AD23F00MS1
(F to M)



AD23F00FS1
(F to F)

0.8 mm to 0.8 mm

145 GHz



AD23M23MS1
(M to M)



AD23F23MS1
(F to M)



AD23F23FS1
(F to F)

Low loss Microwave Cables

1.0 mm

110 GHz



W601 (Male)



W601 (Female)



WT110 (Male)



WT110 (Female)

0.8 mm

145 GHz



W602 (Male)



W602 (Female)



WT145 (Male)



WT145 (Female)

Product Lineup

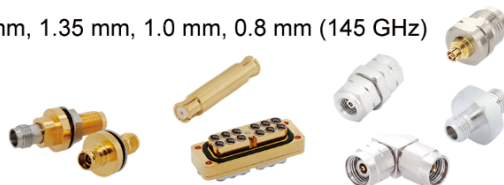
Microwave Connectors

- End Launch Type : SMA, 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm & 0.8 mm (145 GHz)
- Vertical Launch Type : SMA, 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm & 0.8 mm (145 GHz)
- Panel Mount Type : SMA, 2.92 mm, 2.4 mm, SMP
- SMT Type : SMP, SMPM, SMPS (67 GHz)
- Non-magnetic Connectors : SMA, 2.92 mm, 2.4 mm



Microwave Adapters

- Straight Type : SMA, N, 2.92 mm, 3.5 mm, 2.4 mm, 1.85 mm, 1.35 mm, 1.0 mm, 0.8 mm (145 GHz)
- Right Angle Type : 2.92 mm, 2.4 mm, 1.85 mm
- Low PIM type : DIN, 4.3-10, N- & SMA
- Bullet Adapters : SMP, SMPM
- Vacuum Feed Through (SMA, SMPM)



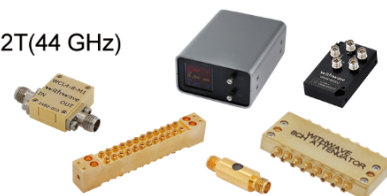
Microwave Cable Assemblies

- Ultra Low Loss : SMA, 2.92 mm, 3.5 mm, 2.4 mm
- Flexible & Phase Stable : SMA, N, 2.92 mm, 2.4 mm, 1.85 mm, 1.0 mm, 0.8 mm (145 GHz)
- Semi-Rigid & Semi-Flexible : SMA, N, 2.92 mm, 2.4 mm
- Push on : SMP/SMPM/SMPS to 2.92 mm & 2.4 mm, Multi-Channel
- Cryogenic Cable Assemblies (SUS, CuNi, NbTi)



RF Switches/ Cryogenic Modules

- Absorptive Switch Modules (MMIC)
 - ·SP4T (10, 18, 44 GHz) · SP8T (8 GHz) · SP10T (18, 44 GHz) · SP12T(44 GHz)
- Reflective Switch Modules (MEMS)
 - ·SP4T (18 GHz) · SP10T (18 GHz) · 4-Port Matrix Switch (20 GHz)
- Cryogenic LNA & Low noise power Supply
- Cryogenic IR Filters ▪ Cryogenic Attenuators



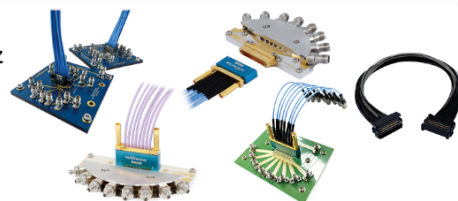
High Speed Connectors & Module

- High Speed Board to Board Connectors (0.9 & 1.0 mm pitch) : 56 Gbps NRZ, 112 Gbps PAM-4
- High Speed Micro-Miniature Board to Board Connector: Hermaphroditic Type (50 GHz)
- QSFP28 Connector (0.8 mm pitch) : 28 Gbps
- Broadband DC Blocks (110, 145 GHz)



High Speed & Interconnect Solution

- High Speed Multicoax Cable (WMX Series)
 - Vertical & Edge Mount type · 20, 40, 50, 67, 110 & 145 GHz
- High Speed Multicoax Cable (SMPM & SMPS Series)
 - Vertical & Edge Mount type · 40 & 67 GHz
- High Speed Cable (56 Gbps NRZ)
 - Right Angle & Vertical type (24 differential Pair, 92 Ohm)



Calibration Kits & Test Probes

- Mechanical Calibration Kits : N-type (8 GHz), 3.5 mm(9 GHz)
- Automatic Calibration Modules : N-type (18 GHz), 3.5 mm(26.5 GHz) in 2-& 4-Ports
- T-Probe (Pogo Type) : GSG, GS type (20 & 40 GHz)
- Hyprobe test socket : 0.175~0.35mm pitch (40 Gbps)



Absorber Sheets

- LS Series (< 6 GHz) ▪ MD Series (< 24 GHz) ▪ HS Series (< 40 GHz)
- MT Series (< 18 GHz) ▪ HT Series (< 40 GHz) ▪ MS Series (< 18 GHz)
- Flexible Form Type
- LF Series (<18 GHz), HF Series (>18 GHz)

