

BSDU-1X16ER

1X16 Bidirectional Signal Distribution 350 MHz ... 6000 MHz

Features

- wideband
- GSM, UMTS, LTE, 5G
- Wi-Fi IEEE 802.11 a/h/ac,b,g,n,p
- Up to 5 W RF power at COM port

Applications

- Wired test
- Base station distribution
- Access Point distribution
- Product validation
- End of Line mass testing

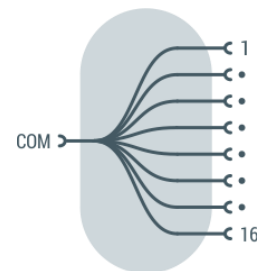


At a Glance

The BSDU-1X32ER is a bidirectional, wideband 1X16 signal distribution / combiner unit for the frequency range 350 MHz...6000 MHz and therefore suitable for all cellular radio and wireless network applications in FR1 (frequency range 1, < 6 GHz).

With help of the BSDU-1X16ER one base station, communication tester or Wi-Fi access point can be connected with up to 16 test units via RF cables. The transmission via RF cables avoids influences of radio fields during testing coming from the environment and thereby enables reproducible tests. The high out-to-out isolation reduces the mutual influence of adjacent test units.

Principle diagram



RF Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
impedance	Z_{IN} / Z_{OUT}		50		Ohm	
low frequency	f_{min}		300	350	MHz	
high frequency	f_{max}	6000			MHz	
configuration	$n \times m$	1X16				
connector type	X_{RF}	SMA female				
insertion loss	S_{21}, S_{12}	-13	-12	-11	dB	$f = 1 \text{ GHz}$
	S_{21}, S_{12}	-14	-13	-12	dB	$f = 2 \text{ GHz}$
	S_{21}, S_{12}	-15	-14	-13	dB	$f = 4 \text{ GHz}$
	S_{21}, S_{12}	-16	-15	-14	dB	$f = 6 \text{ GHz}$
COM port return loss	S_{11}	-8	-13		dB	
RF1...RF16 return loss	S_{22}	-12	-18		dB	
DC voltage	U_{DC}			20 V	dBm	all ports are DC coupled
maximum input power	P_{RFSUM}			+37	dBm	summary port
	$P_{RF1TO16}$			+33	dBm	ports 1...16

Common Specifications

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
dimensions	W x H x D	approx. 515 x 150 x 450			mm	19", 3 U
weight			9.5		kg	
operating temp. range	T _o	+ 0		+ 50	°C	within specification
storage temp. range	T _s	- 40		+ 70	°C	
Ordering information	BSDU-1X16ER		P/N: 1705.6602.1			

Appearances



Front view



Rear view

Related Products

Product	Description	P/N
AIE-4X4R	4 Channel Air Interface Emulator 500 ... 3000 MHz	1201.4002.1
AIE-4X4ER	4 Channel Air Interface Emulator 400 ... 6000 MHz	1201.4902.1
AIE-W5ER	5 Port Air Interface Emulator 400 ... 6000 MHz	1309.4052.1
AIE-W9R	9 Port Air Interface Emulator 1800 ... 6400 MHz	1309.4092.1