



Concentric Technology Solutions Inc

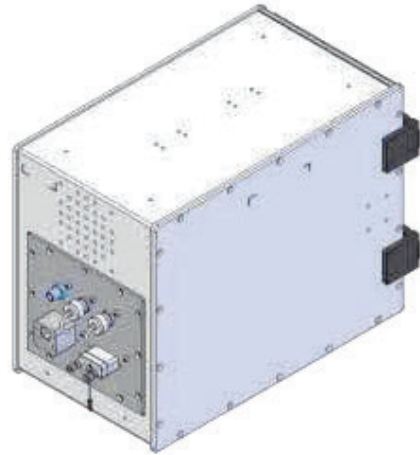
Solutions for the Wireless Industry

TC-5930AU/ARU

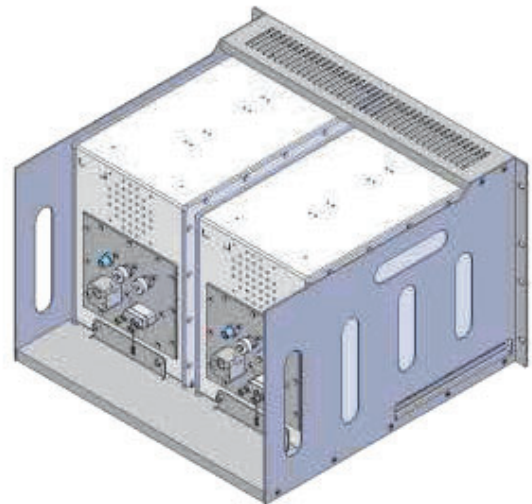
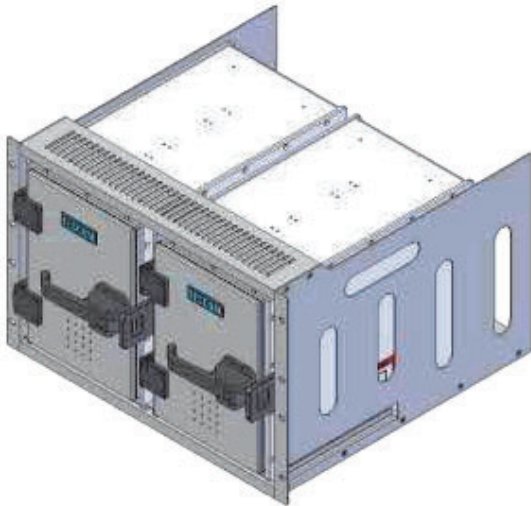
Shield Box



Data Sheet



TC-5930AU



TC-5930ARU (TC-5930AU [2EA] + 19" Rack Mounting Bracket)

For those looking to test larger wireless devices like laptops and desktops, the TC-5930AU provides up to 12 GHz of RF shielding in a rack-mountable setting similar to that of the TC-5930AR. Our broadband frequency range ensures that our boxes not only support new technologies but also traditional technologies like LTE, Bluetooth, and Zigbee, to provide a coverage with current and forward-looking wireless communication technologies like 5G, WIFI 6E, and UWB variants and the future.

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TEL: 817-503-8862 FAX: 817-503-8866 Email: CTS-Sales@ctscorp-usa.com www.rfshieldbox.com www.ctscorp-usa.com



Features

- Reliable high RF shielding from 0.1 GHz to 12 GHz
 - Easy open/close
 - Absorbing materials for stable measurement results
 - EMI filters on all data lines
 - Customizable I/O interface panels
- TC-5930AU Rack Mount Set: TC-5930AU [2EA] + 19" Rack Mounting Bracket

Mechanical Specifications

■ TC-5930AU

Dimensions	
Inside	170 (W) x 320 (D) x 238 (H) mm
Outside	218 (W) x 398 (D) x 282 (H) mm
Door	161 (W) x 236 (H) mm

Weight	Approx. 9 kg
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*Packing	
Size	370 (W) x 510 (D) x 400 (H) mm
Weight	Approx. 11 kg

■ TC-5930ARU (19" Rack Mount Set)

Dimensions	
Inside	170 (W) x 320 (D) x 238 (H) mm
Outside	483 (w) x 486 (D) x 310 (H) mm
Door	161 (W) x 236 (H) mm

Weight	Approx. 24 kg
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*Packing	
Size	640 (W) x 690 (D) x 440 (H) mm
Weight	Approx. 31 kg

* The size or weight of a package may vary depending on how the product is packed.



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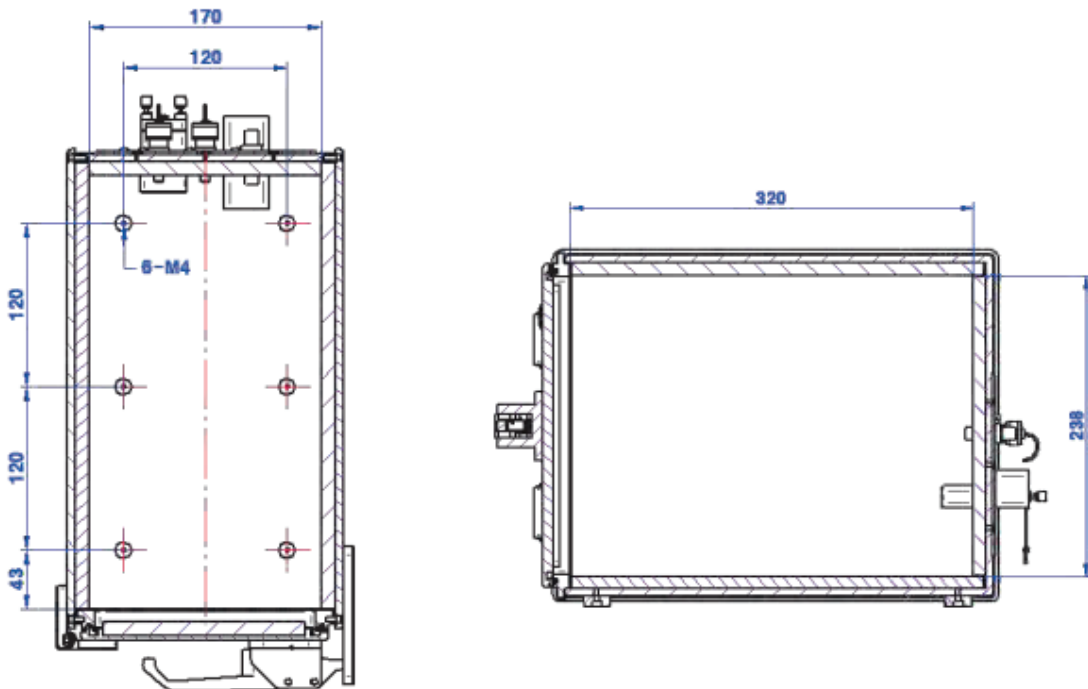
RF Specifications

*The shielding effectiveness is measured with blank panels mounted; other I/O interface panel may result in different shielding effectiveness.

Frequency Range	0.1 GHz to 12 GHz
*Shielding Effectiveness	
0.1 GHz to 3 GHz	> 70 dB (meas.)
3 GHz to 6 GHz	> 60 dB (meas.)
6 GHz to 12 GHz	> 60 dB (meas.)

Inner Dimensions

TC-5930AU Inner Dimensions: 170 (W) x 320 (D) x 238 (H) mm



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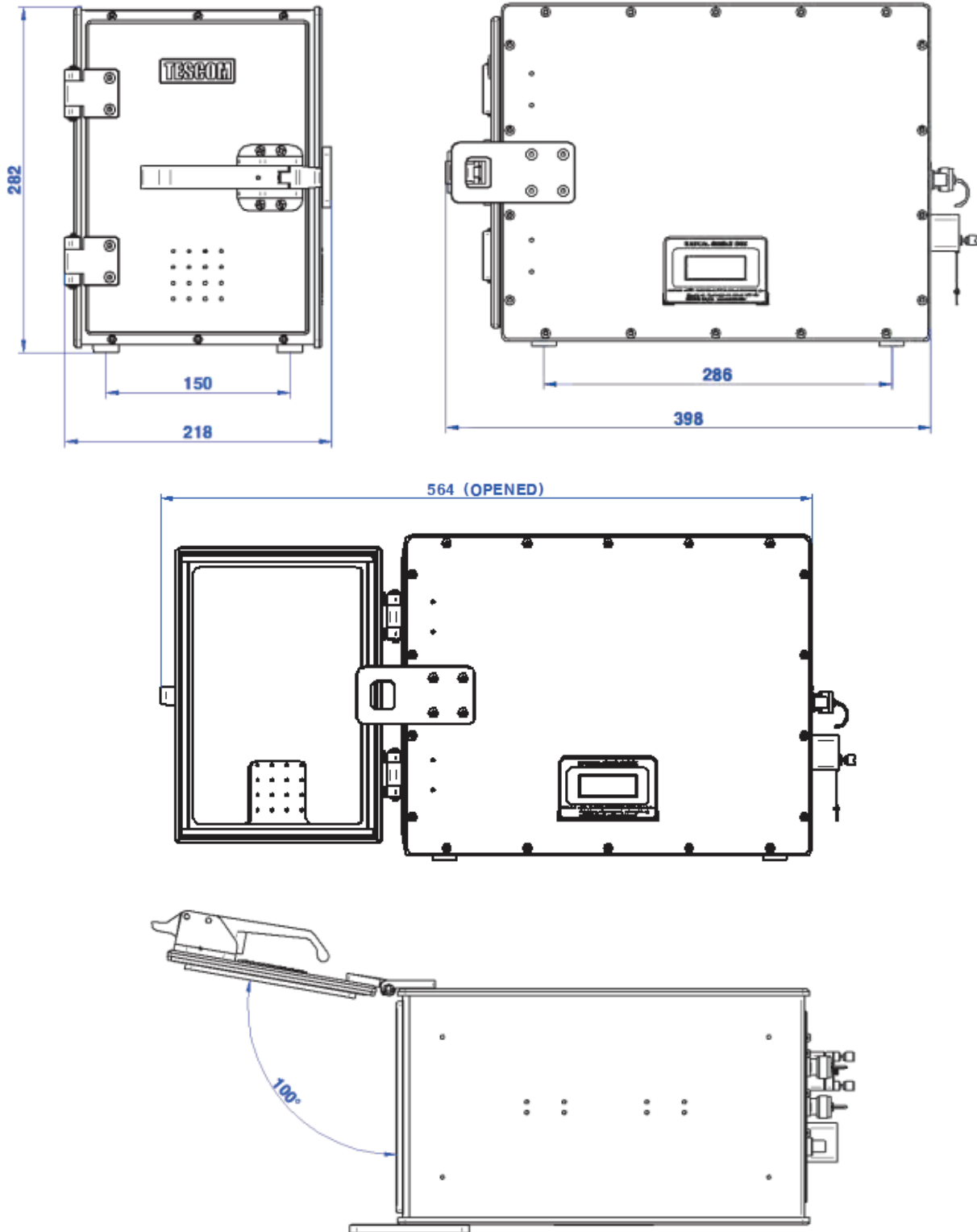


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Outer Dimensions

TC-5930AU/ARU Outer Dimensions: 218 (W) x 398 (D) x 282 (H) / 483 (w) x 486 (D) x 310 (H) with Rack



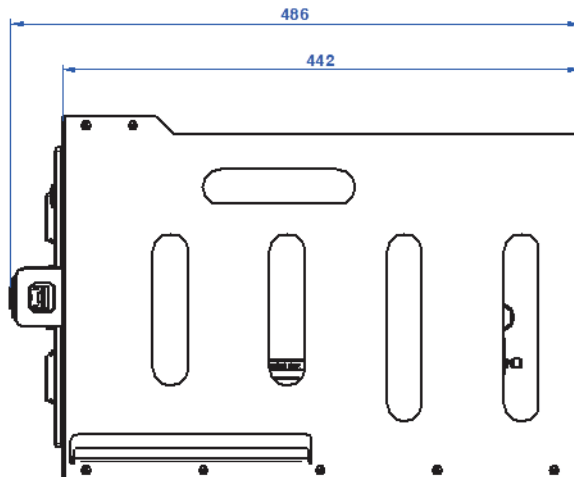
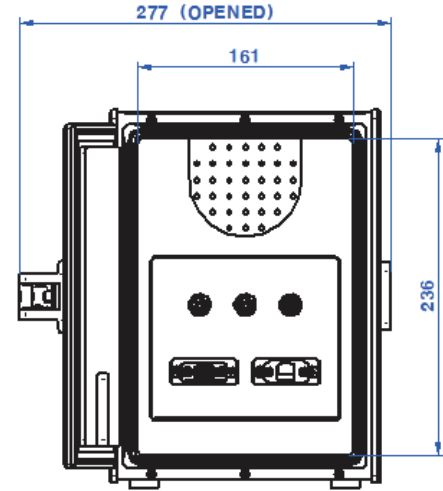
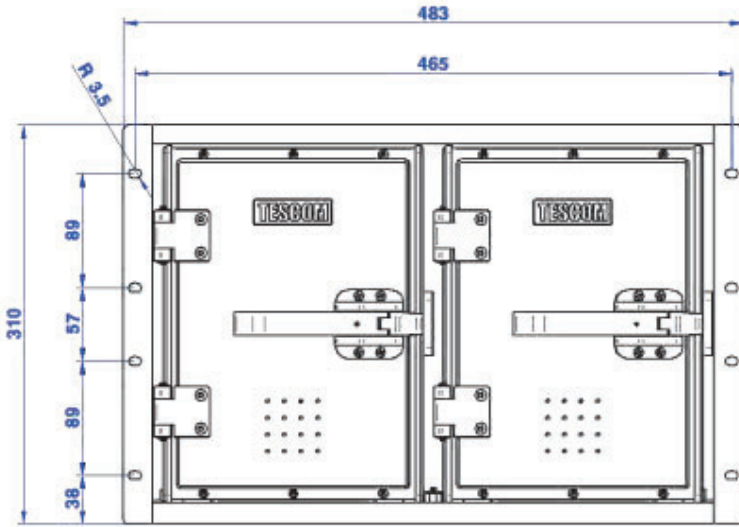
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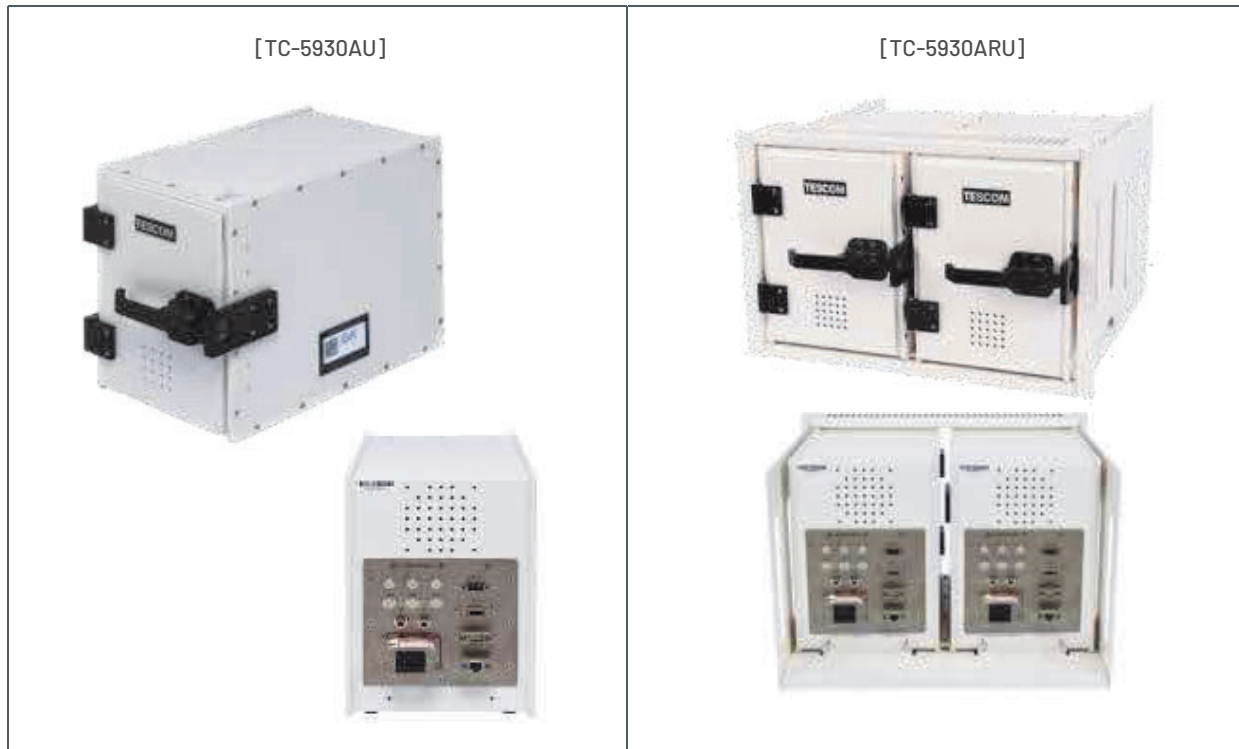
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Ordering Information

Order Number	Product
TC-5930AU	Shield Box (including accessories below) Test Report SS-402, N(m)to N(m) cable, 1m, 1pc
TC-5930ARU Rack Mount Set	TC-5930AU [2EA] + 19" Rack Mount (including accessories below) Test Report SS-402, N(m)to N(m) cable, 1m, 2pc





Custom RF Connector Panel

Custom RF Connector Panel is available by selecting or combining the below RF Connectors

RF Connector	Description / Order Number	Frequency Range / Impedance / V.S.W.R
	RF, N-SMA BH Connector 3408-0101	From DC to 18 GHz / 50 Ω / 1.3 max
	RF, SMA-SMA BH Connector 3408-0101	From DC to 18 GHz / 50 Ω / 1.3 max



I/O Interface Panels




Product	Code	Configuration
	M02020A	One (1), DC Power Jack Adaptor One (1), RJ-45 Outside and Inside Two (2), N(f) Outside and SMA(f) Inside One (1), USB 2.0 Outside and Inside
Data Interface Panel		
	C5930A-2032A	One (1), Fan DC 24V (Exhaust)
Cooling Fan		

Cooling Fan assembly position (e.g. TC-5930ARU)



Custom I/O Interface Panel

Custom I/O Interface Panel is available by selecting below I/O Interfaces and combine.

I/O Filters	Code	Description	*Typical Shielding
	3409-0009-1 DB25, 1000pF pi Filter	3 Mbps / 100 VDC 5 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz
	3409-0014-1 DB25, 100pF pi Filter	10 Mbps / 100 VDC 5 Amps max	>50 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >60 dB from 3 to 6 GHz
	3409-0008-1 DB9, 1000pF pi Filter	3 Mbps / 100 VDC 5 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz



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I/O Filters	Code	Description	*Typical Shielding
	3409-0010-1 DB9, 100pF pi Filter	10 Mbps / 100 VDC 5 Amps max	>50 dB from 0.5 to 2 GHz >60 dB from 2 to 3 GHz >60 dB from 3 to 6 GHz
	3409-0018A-3^(a) USB 2.0 Filter	480 Mbps /5 V, 500 mA Max Current: 5 A	>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz >70 dB from 6 to 12 GHz
	3409-0042A-2^(a) USB 3.2 Gen 1, Type A Filter (Active)	5000 Mbps/ 5 V, 600 mA Max Current: 1.5 A	>80 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >75 dB from 3 to 6 GHz >55 dB from 6 to 12 GHz
	3409-0046A USB 3.2 Gen 2, Type C Filter (Active)	10 Gbps / 4 - 22V Max Current: 5 A	>70 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz >70 dB from 6 to 12 GHz
	3904-0296A RJ-45 Filter	1 Gbit/s Copper-Line Ethernet (1000 BASE-T)	>60 dB from 0.5 to 2 GHz >70 dB from 2 to 3 GHz >70 dB from 3 to 6 GHz >60 dB from 6 to 12 GHz
	3406-0004A DC Power Adaptor	50 VDC 3 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz >70 dB from 6 to 12 GHz
	3406-0005A (Black) 3406-0006A (White) DC Power Adaptor (Banana Jack Type)	50 VDC 10 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz >70 dB from 6 to 12 GHz
	3103-0009A AC Power Adaptor	250 VAC 7 Amps max	>70 dB from 0.5 to 2 GHz >80 dB from 2 to 3 GHz >80 dB from 3 to 6 GHz >70 dB from 6 to 12 GHz

(a) Exclusive cables should be used. (USB Cable, 4008-0079A, 2M, USB 3.0A(M)- USB 3.0A(M), Housing: Aluminum

*Typical Shielding is an estimated value with I/O interface applied.

The data above were measured by internal standards, and they may differently depend on the measuring method and environment. Each shielding effectiveness is measured without any cable, so it will be likely affected when a cable is connected. Also, it may vary depending on the type of cable.

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE

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