ARINC 600 Trays

ARINC 600 8 MCU Tray with Side-Mounted Fan and Plenum Chamber

INTRODUCTION

All ARINC 600 Trays are designed and fabricated in our state-of-the-art manufacturing facility using top quality aircraft-grade materials to meet or exceed ARINC 600 specifications, as well as all civil and military aircraft application criteria. Our special designs stand up to the most rigorous environmental hazards for in-flight and on-the-ground operations. Each tray is fully warrantied, ensuring that your avionics systems equipment will not only fit securely, but also operate safely. Off-the-shelf designs or custom solutions, as well as the option of positive pressure air cooling systems through the use of an optional plenum chamber and fan, are available to best fit your requirements.

APPLICATIONS

» ARINC 600 Standards
» CFR Title 14 Part 25, 23, & 21
» RTCA/DO-160
» MIL-STD-810

FEATURES

» Durable, rugged construction
» Light-weight aluminum alloy
» 24-hour AOG support
» Fan-cooled trays conform to ARINC Level 1 maximum cooling specifications (Level 2 cooling is available if required). Cooling fans can be ordered with AC or DC power supply.
» Available with ARINC 600 air filtration solutions
» Clear Chem Film per MIL-DTL-5541, Type II, Class 3
» Materials meet flammability, optical smoke density, and toxic gas generation requirements
» RoHS compliant in standard configurations

SERVICES

» Structural analysis
» Shock & vibration testing
» Crash safety testing
» Finite element analysis
» Flammability testing
» Environmental testing
» Air flow & cooling analysis & testing

ARINC 600 Trays

SUGGESTED APPLICATIONS

The following cut-away diagrams illustrate standard front and rear-mounting hole placement for ARINC 600 Trays. No. 10 mounting holes are standard on all trays. No. 8 mounting holes are available as an option. Note: Dimensions are in inches, bracketed [numbers] represent millimeters.

Standard Mounting Hole Pattern
» 2, 3, and 6 MCU

Standard Mounting Hole Pattern
» 4, 5, 7, 8, 9, 10, 11, and 12 MCU
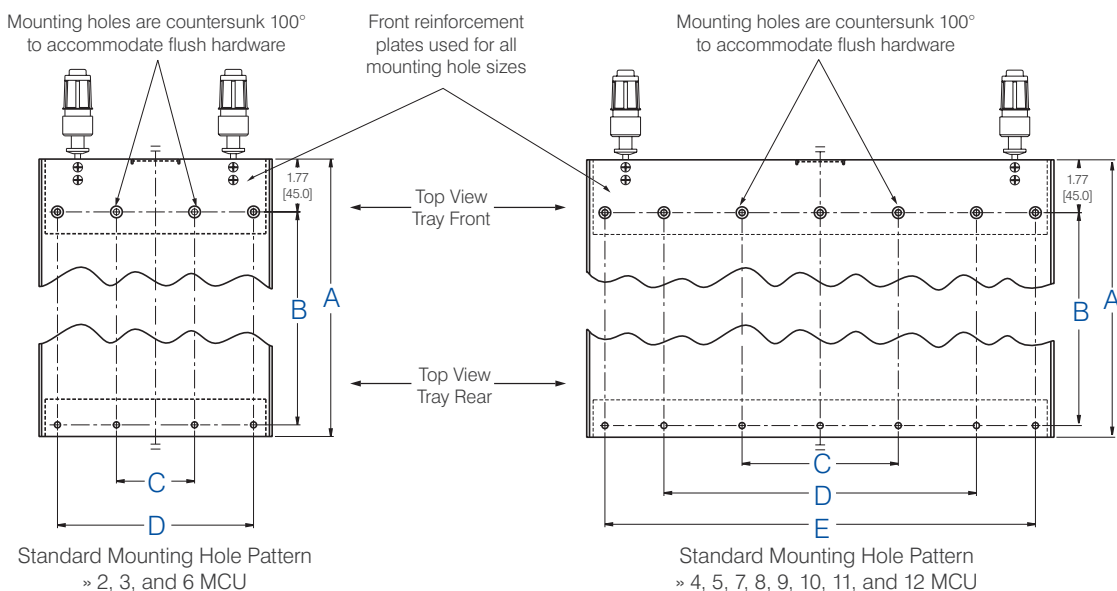
MOUNTING DIMENSIONS REFERENCE CHART

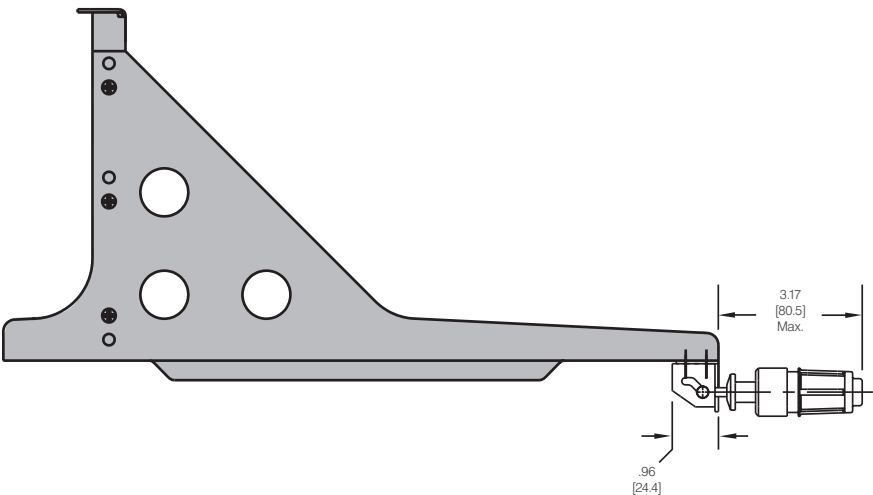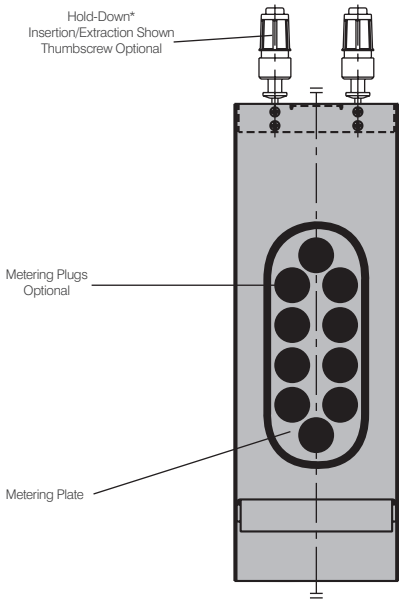| MCU Size	A	B	C	D	E
2	14.92 [379.0]	12.76 [324.1]	1.312 [33.3]	-	-
2	20.06 [509.5]	18.00 [457.2]	1.312 [33.3]	-	-
3	14.92 [379.0]	12.76 [324.1]	2.624 [66.6]	-	-
3	20.06 [509.5]	18.00 [457.2]	2.624 [66.6]	-	-
4	14.92 [379.0]	12.76 [324.1]	3.936 [100.0]	-	-
4	20.06 [509.5]	18.00 [457.2]	3.936 [100.0]	-	-
5	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	-	-
5	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	-	-
6	14.92 [379.0]	12.76 [324.1]	2.624 [66.6]	6.560 [166.6]	-
6	20.06 [509.5]	18.00 [457.2]	2.624 [66.6]	6.560 [166.6]	-
7	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	7.872 [199.9]	-
7	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	7.872 [199.9]	-
8	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	9.184 [233.3]	-
8	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	9.184 [233.3]	-
9	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	10.496 [266.6]	-
9	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	10.496 [266.6]	-
10	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	11.808 [299.9]	-
10	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	11.808 [299.9]	-
11	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	13.120 [333.2]	-
11	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	13.120 [333.2]	-
12	14.92 [379.0]	12.76 [324.1]	5.248 [133.3]	10.496 [266.6]	14.432 [366.6]
12	20.06 [509.5]	18.00 [457.2]	5.248 [133.3]	10.496 [266.6]	14.432 [366.6]

ARINC 600 Trays

Short/Short and Short/Long Trays

Note: Dimensions are in inches, bracketed [numbers] represent millimeters.

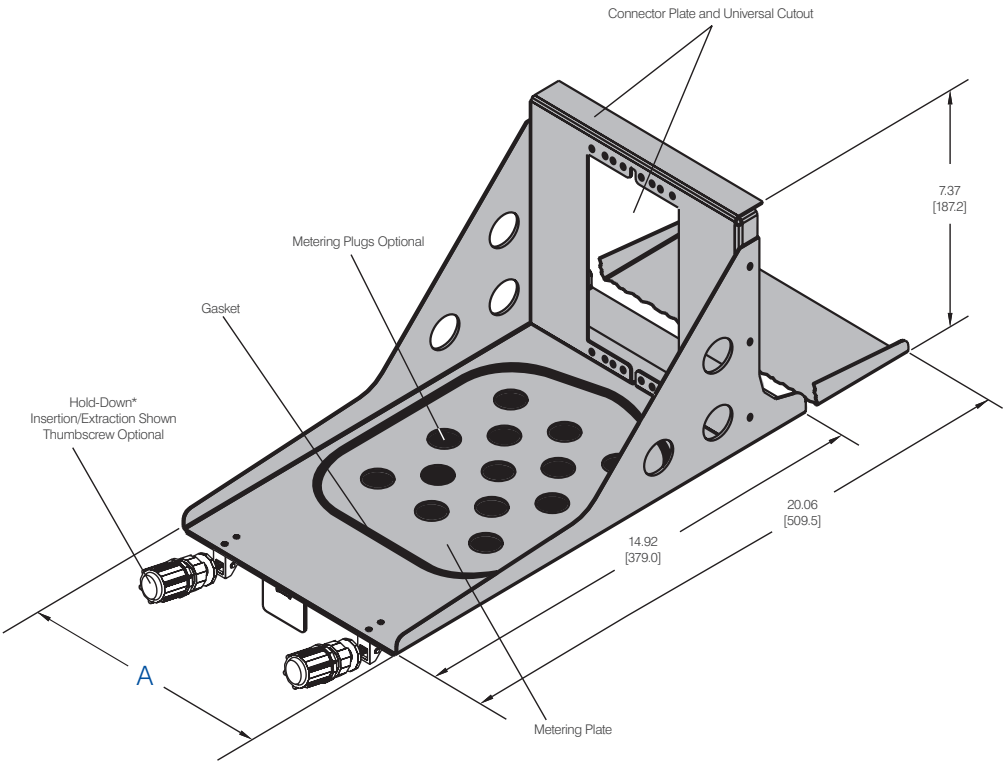**Typical Side View**

Typical Top View

Hold-Down*
Insertion/Extraction Shown
Thumbscrew Optional

3.17
[80.5]
Max.

.96
[24.4]

Metering Plugs
Optional

Metering Plate

MCU Size	A (Outside Dimensions)
1 MCU	1.22 [31.0]
2 MCU	2.51 [63.8]
3 MCU	3.81 [96.8]
4 MCU	5.13 [130.3]
5 MCU	6.43 [163.3]
6 MCU	7.73 [196.3]
7 MCU	9.03 [229.4]
8 MCU	10.33 [262.4]
9 MCU	11.63 [295.4]
10 MCU	12.93 [328.4]
11 MCU	14.23 [361.4]
12 MCU	15.53 [394.5]

Connector Plate and Universal Cutout

Metering Plugs Optional

Gasket

Hold-Down*
Insertion/Extraction Shown
Thumbscrew Optional

7.37
[187.2]

20.06
[509.5]

14.92
[379.0]

A

Metering Plate

*Thumbscrew Hold-Down options include: Insertion/Extraction, Advanced Thumbscrew, and Military-Style Thumbscrew. All dimensions shown represent CarlisleIT's standard tray dimensions and frequently requested options. CarlisleIT can customize any of these features to suit your specific needs.
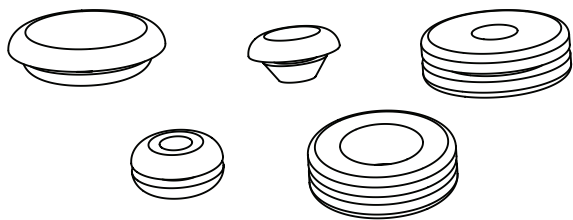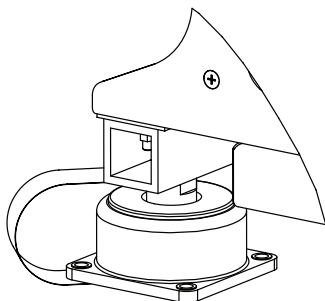
ARINC 600 Trays

OPTIONS & ACCESSORIES

Hold-Downs

Insertion/Extraction

Advanced Thumbscrew

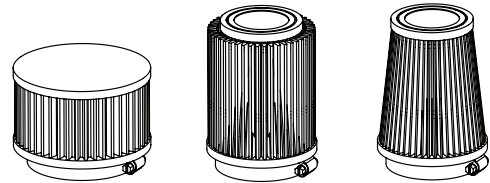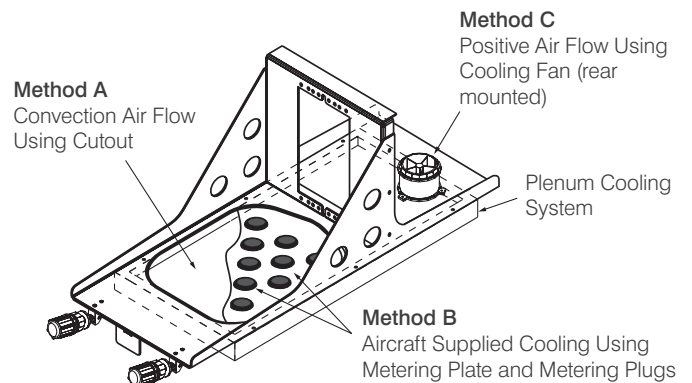Military-Style Thumbscrew
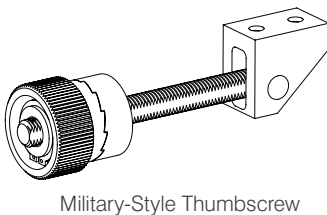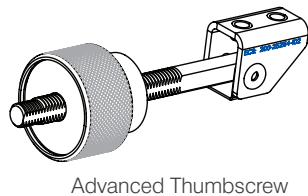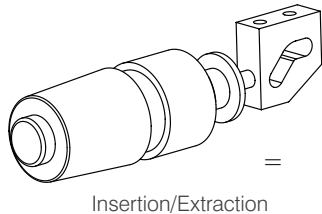
Metering Plugs & Reducing Grommets

Shock & Vibration Isolators

Positive Pressure Air Filters*
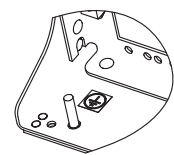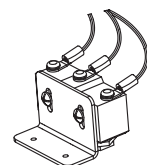*Negative Pressure Air Filters available

Cooling Fans & Integrated Plenums

Method A
Convection Air Flow Using Cutout

Method C
Positive Air Flow Using Cooling Fan (rear mounted)

Plenum Cooling System

Method B
Aircraft Supplied Cooling Using Metering Plate and Metering Plugs

Fan Failure Monitoring, Grounding Features & Terminal Blocks

Fan Failure Sensor

Terminal Blocks

Ground Module

Ground Stud
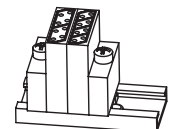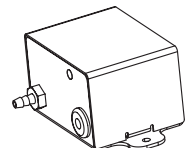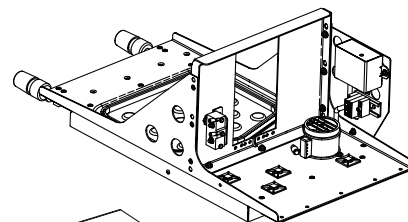
See CarlisleIT's line of Trays, Racks, and Enclosures at:

CarlisleIT.com/products/structures

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