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 operate safely. Off-the-shelf designs or custom solutions are available to best fit your requirements as well as the option of positive pressure air cooling systems through the use of an optional plenum chamber and fan.

APPLICATIONS

» ARINC 600 Standards
» CFR Title 14 Part 25, 23 and 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

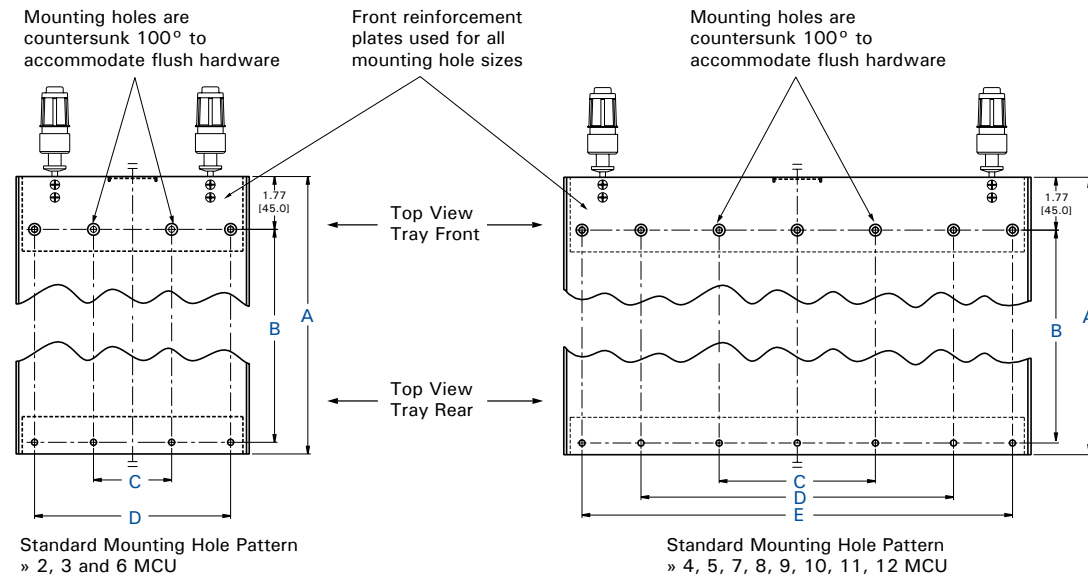## SERVICES

» Structural Analysis
» Shock & Vibration testing
» Crash Safety testing
» Finite Element Analysis
» Flammability testing
» Environmental testing
» Air flow and cooling analysis and testing

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ITAR FREE

MOUNTING PATTERNS

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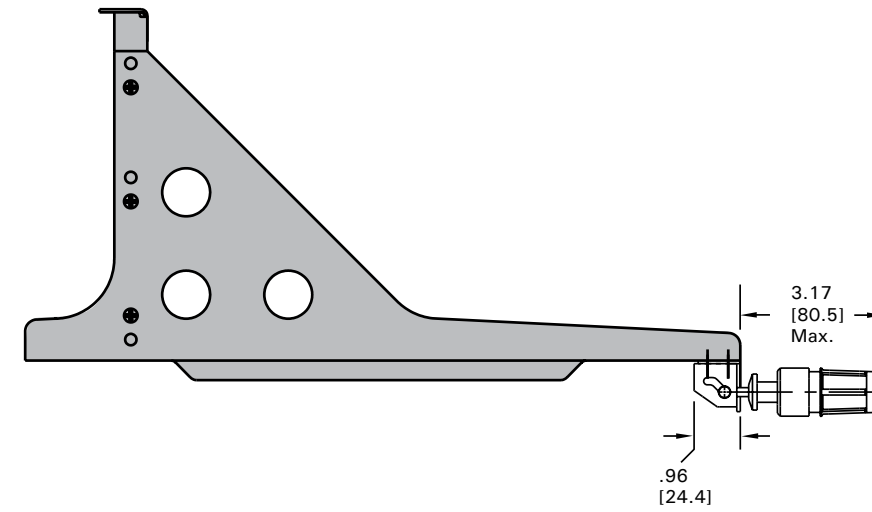Note: Dimensions are in inches, bracketed [numbers] represent millimeters.

Mounting holes are countersunk 100° to accommodate flush hardware

Front reinforcement plates used for all mounting hole sizes

Mounting holes are countersunk 100° to accommodate flush hardware

1.77 [45.0]

Top View Tray Front

Top View Tray Rear

1.77 [45.0]

Standard Mounting Hole Pattern
» 2, 3 and 6 MCU

Standard Mounting Hole Pattern
» 4, 5, 7, 8, 9, 10, 11, 12 MCU

MOUNTING DIMENSIONS: REFERENCE CHART

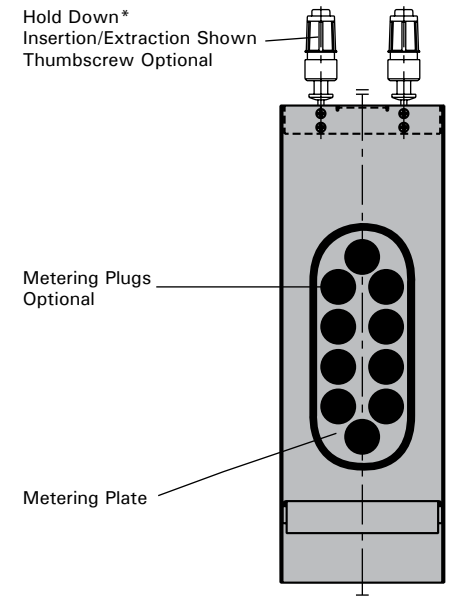| MCU Size	A	B	C	D	E
2	14.92 [379.0]	12.76 [324.1]	1.312 [33.3]	-	-
2	20.06 [509.5]	18.00 [457.2]	1.312 [33.3]	-	-
3	14.92 [379.0]	12.76 [324.1]	2.624 [66.6]	-	-
3	20.06 [509.5]	18.00 [457.2]	2.624 [66.6]	-	-
4	14.92 [379.0]	12.76 [324.1]	3.936 [100.0]	-	-
4	20.06 [509.5]	18.00 [457.2]	3.936 [100.0]	-	-
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]

DIMENSIONAL DATA

Short/Short and Short/Long Trays
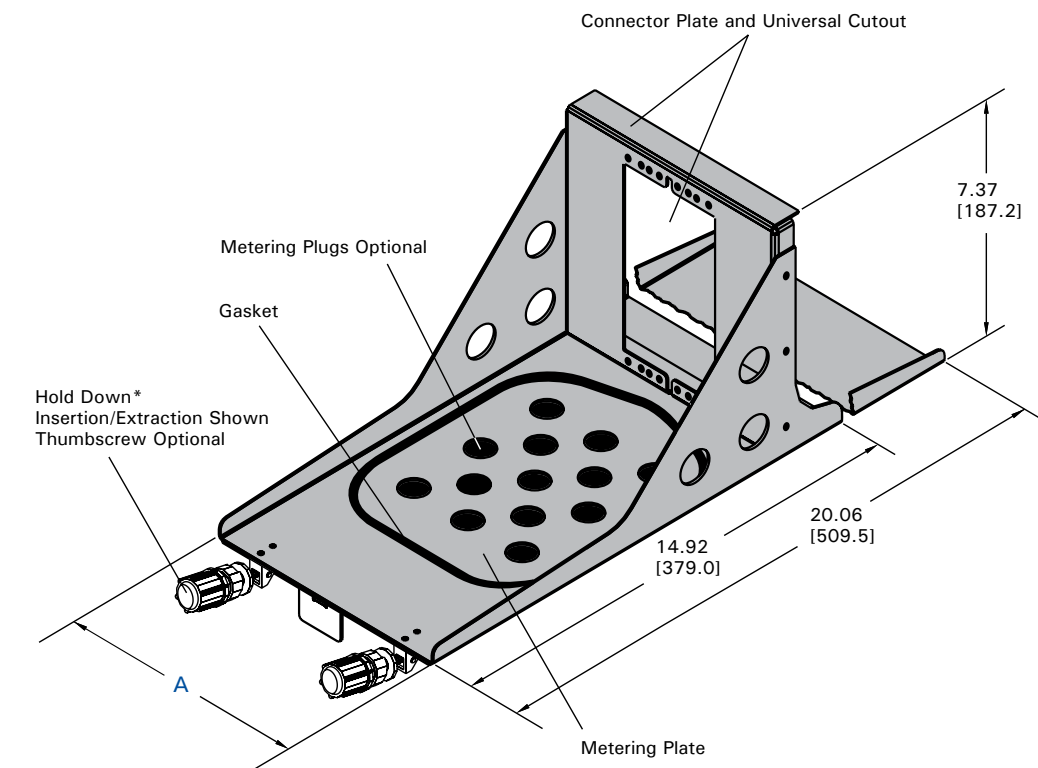Note: Dimensions are in inches, bracketed [numbers] represent millimeters.

Typical Side View

Typical Top View

Hold Down*
Insertion/Extraction Shown
Thumbscrew Optional

Metering Plugs Optional

Metering Plate

3.17 [80.5] Max.

.96 [24.4]

MCU Size	A (Outside Dimensions)
1MCU	1.22 [31.0]
2MCU	2.51 [63.8]
3MCU	3.81 [96.8]
4MCU	5.13 [130.3]
5MCU	6.43 [163.3]
6MCU	7.73 [196.3]
7MCU	9.03 [229.4]
8MCU	10.33 [262.4]
9MCU	11.63 [295.4]
10MCU	12.93 [328.4]
11MCU	14.23 [361.4]
12MCU	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.
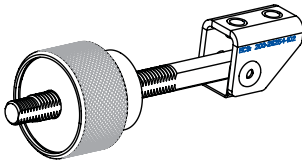
OPTIONS & ACCESSORIES
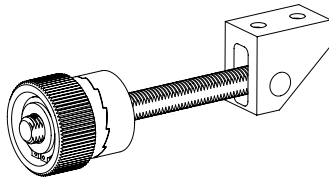
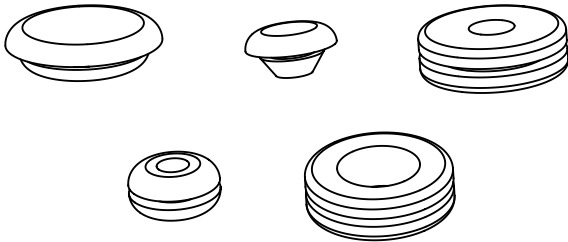Contact facility for full listing of options.
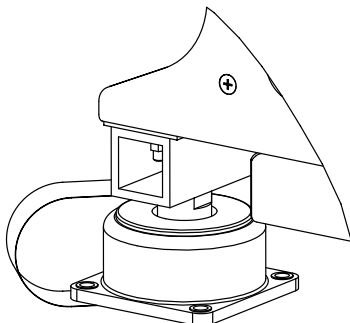
Hold Downs
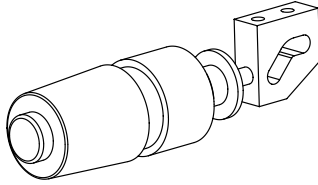
Insertion/Extraction
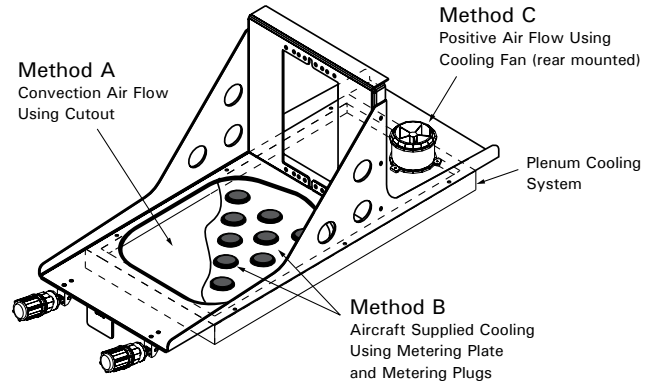
Advanced Thumbscrew

Military Style Thumbscrew

Positive Pressure Air Filters*

*Negative Pressure Air Filters available

Cooling Fans and Integrated Plenums

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

Method A
Convection Air Flow
Using Cutout

Plenum Cooling
System

Method B
Aircraft Supplied Cooling
Using Metering Plate
and Metering Plugs

Metering Plugs and Reducing Grommets

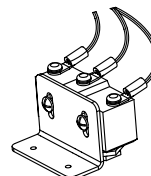### Shock and Vibration Isolators

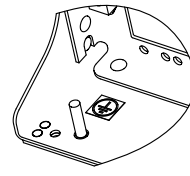### Fan Failure Monitoring, Grounding Features and Terminal Blocks
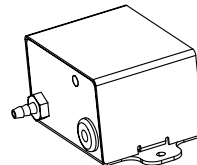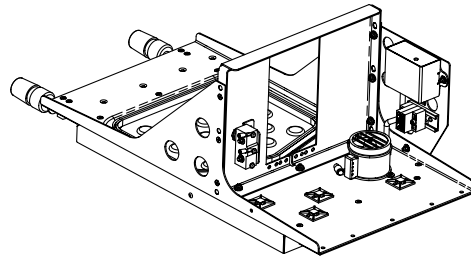
Fan Failure Sensor
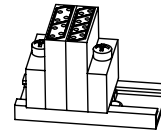
Terminal Blocks

Ground Module

Ground Stud

Rev. 010813-3000