# aTCA-80302PD

## *3U 2-slot Full-Mesh 40G AdvancedTCA® Shelf*

## Features

- 19" Rackmount, 3U height, 385mm depth
- 2-slot full-mesh topology Fabric Interface
- 2-slot standard Rear Transition Module
- Dual-bussed IPMB
- Hot-swappable IPMC controlled fan trays
- Two shelf management controller slots
- Dual -48 V DC power entry modules



**Advanced TCA®**

## Specifications

### Mechanical
19" Rackmount, 3U height, 385mm depth

### Specification
Fits inside a 600 mm deep cabinet (include cable bend area)
Supports 2-slot standard AdvancedTCA® blades and RTMs

### Shelf Manager
Dual-hot-swappable Pigeon Point Systems ShMM-700 based ShMCs
or Built-in simple Shelf manger function in intelligent fan trays
Active/Standby mode for high availability applications
Support multiple management functions:
- Monitoring temperature in the shelf and on the board
- Running cooling algorithm based on temperature conditions
- Hot-swapping blades (Activate and deactivate ATCA blade when receiving hot-swap messaging )
- Monitoring fan fault condition
- Indicating fan tray (separate left and right) fault and power supply fault at front panel

### Cooling System
Hot-swappable IPMC controlled fan trays
Easily removable replaceable air filter

### Backplane
Hub-hub topology Base Interface
Full-Mesh topology Fabric Interface
Update channels for active/standby synchronization
Dual-bussed IPMB

### Power Input
-40V DC to -72V DC
Nominal -48 V DC/ -60 V DC
Dual redundant power entry modules
Input nominal current 48V@35A (1680W)
Weight: 15 kg

### Operating Temp.
+5°C to +40°C (long term)
-5°C to +55°C (short term)

### Storage Temp.
-40°C to +70°C

### Humidity
5% to 85%, non-condensing
Dimensions: 483 x 132 x 385mm (W x H x D)
Compliance: PICMG 3.0 Rev. 3.0 compatible
Target Certifications: FCC, CE, UL

## Ordering Information

### Shelves

- **aTCA-80302PD/FM40AA**
  3U 2-slot Rackmount AdvancedTCA® Shelf, Dual-Star Fabric Topology, Full-Mesh IPMI Bus
  2 PPS ShMM-700 based ShMCs

- **aTCA-80302PD/FM40S**
  3U 2-slot Rackmount AdvancedTCA® Shelf, Dual-Star Fabric Topology, Full-Mesh IPMI Bus
  Built-in simple ShMC

### ShMC (Optional)

- **aTCA-8AP/ShMC700**
  Pigeon Point Systems ShMM-700 based ShMC

# Dimensions

448.00 +0.60 / -0.40

385.90±0.50

482.60±0.40

131.35±0.40

28.00

45.18

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