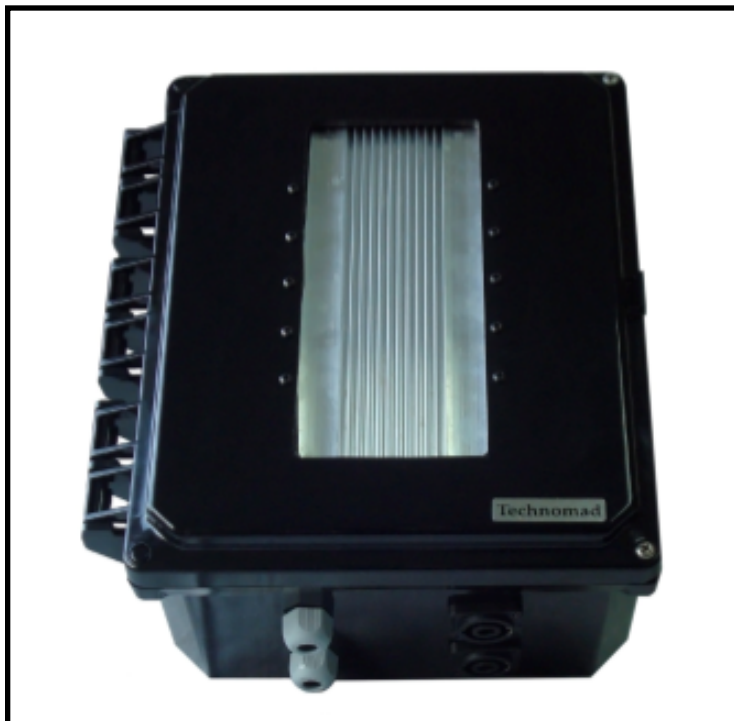


Technomad PowerChiton Amplifier Series

Fully Weather-proof power amplifier modules with ethernet and twisted pair interface options



PowerChiton (pou'er kītōn)

Fully weatherproof, UV stable enclosure

Fuse protected amplifier unit

Compact and durable

Optional pole-mount

Expandable with optional ethernet, RF or twisted pair audio interfaces.

Highly efficient switching power amplifier

Available in 150w, 250w, 500w and 1500w configurations (@ 8 ohms)

Integral crossover filters

The PowerChiton series of weatherproof amplifier modules represent a new approach to outdoor audio systems. Combining a high performance, passively cooled amplifier with a IP66 rated, low profile enclosure, the PowerChiton offers the system installer or designer a new solution for the problems of distributed outdoor audio system design.

Each PowerChiton module is capable of powering a four ohm load and so can drive a pair of loudspeakers, providing more efficient and economical use of the amplifier portion of a system than can be obtained with a powered loudspeaker. Due to the efficient design of the amplifier module, only a passive radiator is needed for cooling and there are no move parts in the module, reducing failure points.

There are four sizes of PowerChiton available- 130w, 250w, 500w and 1500W. While PowerChitons were optimized for use with the Technomad loudspeakers, they can be used with any eight or four ohm loudspeaker.

The PowerChitons feature two line level inputs via internal terminal blocks. One input is balanced and one is unbalanced. Each channel has an individual level control inside the unit allowing the installer to set the levels at the time of installation. Each unit is a single channel amplifier with two NL4MP outputs for ease of cabling.

The PowerChitons have several integrated crossover filter options. By simply selecting which output jumper of the internal pre-amplifier circuit is being use, the unit can be set to work in one of four modes- full range, 350Hz high pass, 85Hz high pass, 85Hz low pass.

The module can be used with standard distributed line level audio but has available expansion options enabling it to work on a ethernet network, RDL Twisted Pair installation or FM wireless distribution system.

The PowerChitons can be installed with the included mounting feet. Pole mount adaptors are also available.

Technomad
THE TOUGHEST LOUDSPEAKERS IN THE WORLD

5 Tina Drive South Deerfield MA 01373 USA
Telephone: 800.464.7757 Fax: 617.424.8233

Technomad PowerChiton Amplifier Series

Performance Specifications

PowerChiton 1

Max. output power @ 1% THD+N
10Hz-20kHz

130w @ 8Ω
250w @ 4Ω
NA @ 2Ω

PowerChiton 2

Max. output power @ 1% THD+N

250w @ 8Ω
500w @ 4Ω
N/A @ 2Ω

PowerChiton 3

Max. output power @ 1% THD+N

525w @ 8Ω
1100w @ 4Ω
N/A @ 2Ω

PowerChiton 4

Max. output power @ 1% THD+N

1500w @ 8Ω, 4Ω

Common specifications across series:

- Output power measurements based on 10Hz-20kHz/
AES17 meas. filter
 - * THD + N in 4Ω
 - * Bandwidth limit
 - * Total efficiency
 - * Dynamic range
- Max. 01%
80 kHz (8Ω)
81% @ 100w , 8Ω
115 dBA

General Specifications

Power input	6' 12/3 AWG pigtail
Audio input	terminal block: 1x balanced, 1x unbalanced
Crossover points	full range, 350Hz high pass, 85Hz high pass, 85Hz low pass
Audio output	2x NL4MP Speak-On (mono)
Operating Temperature	0-50°C
Mounting options	Flange mount Pole mount Speaker mount

Physical Specifications

Cabinet	Polycarbonate (gray/black)
Flame rating	UL94
Outdoor UV rating	UL tested
IP Rating	IP66

PowerChiton 1

10.50"/266mm x 8.50"/216mm x 5.20"/132mm

PowerChiton 2

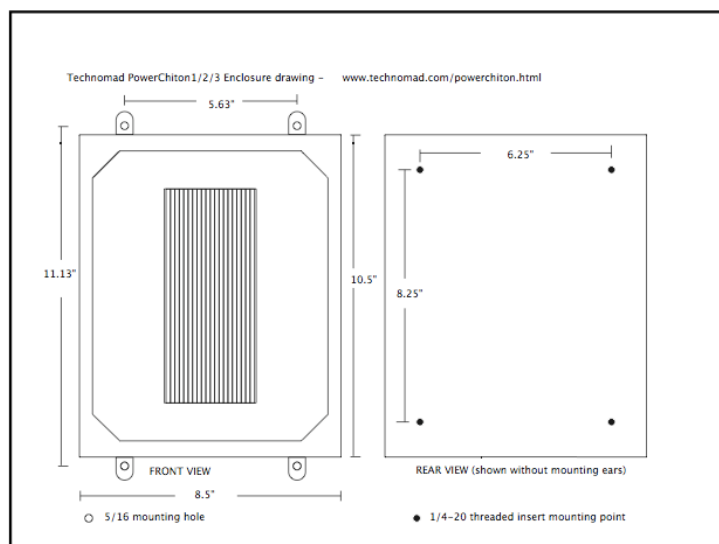
10.50"/266mm x 8.50"/216mm x 5.20"/132mm

PowerChiton 3

10.50"/266mm x 8.50"/216mm x 5.20"/132mm

PowerChiton 4

12.50"/317mm x 10.50"/266mm x 5.20"/132mm



Architectural and Engineering Specifications

The amplifier module shall be a single passively cool type integrated into a weatherproof, polycarbonate NEMA enclosure rated for IP66 exposure. The unit shall be fuse-protected and capable of operating off of either 120vAC or 220vAC power. The unit shall offer options for flange mounting and pole mounting. The unit shall be rated for UV resistance.

The unit shall be capable for operating a 8 ohms, 4 ohms and 2ohms. The unit shall have a THD + N less than .01%.

The unit shall have a total efficiency of better than 81%

The unit shall be expandable to operate as a network audio device with optional ethernet module. The unit shall be expandable to operate on a FM wireless system with optional wireless module. The unit shall be expandable to operate with RDL Twisted Pair™ distribution systems.

The unit shall be a Technomad PowerChiton.

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