GRIT Industrial Hub

Industrial automation in a fully wired build with no wireless RF hardware.



Elevated front view



Touchscreen close-up



PROCESSOR

Intel Celeron J6412

4 cores · 2.00 GHz base · up to 2.60 GHz

MEMORY

8 GB DDR4-3200

STORAGE

128 GB M.2 SSD

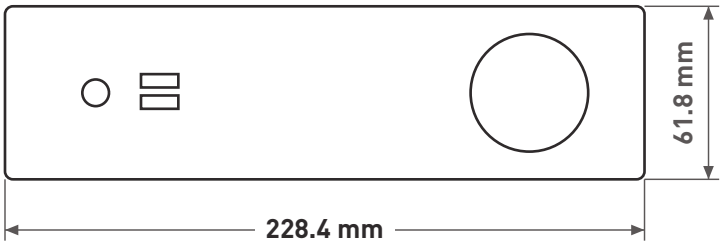
Four-port GRIT Wired Mesh is a proposed RS-485 option. Ask GRIT about built-in Mesh and 5G.

Display shown has radio hardware. Specify a radio-free display for a fully wired build.

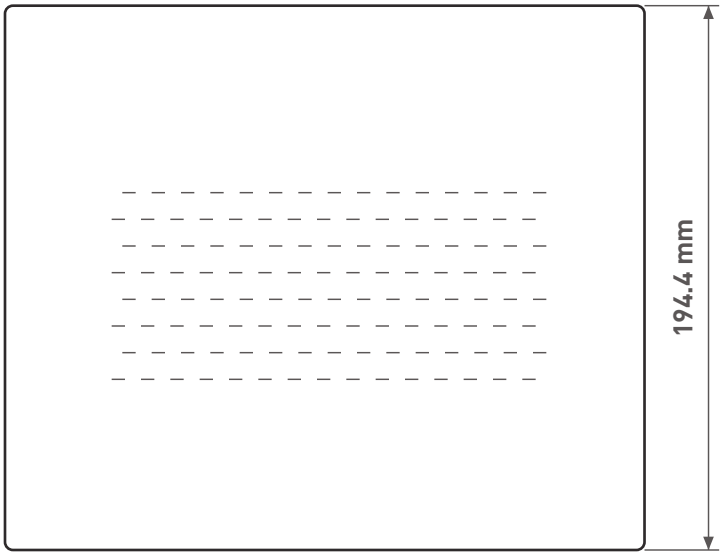
Enclosure dimensions

228.4 mm wide × 194.4 mm deep × 61.8 mm high

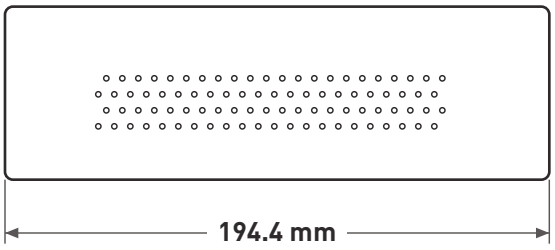
FRONT



TOP



RIGHT SIDE



Case dimensions are from the MITXPC MX500 specification.

Reference drawings show the enclosure body and indicative features. Confirm installation clearances separately.

MITXPC MX500 enclosure specification

Rack and facility installation

Install the Industrial Hub in a server room or network closet. Put the Mesh Xtndr near the equipment it serves, in an area approved for radios.



Installation concept. Rack photo adapted from Techno Tim (CC BY 4.0).

1U

44.45 mm. The 61.8 mm chassis is 17.35 mm taller.

2U

88.9 mm. The chassis leaves 27.1 mm before brackets and airflow allowances.

RACK DEPTH

Allow space for the 194.4 mm chassis, rear connectors, and cable bends.

BOLT TO THE RAILS

Purpose-built side extensions bolt to the chassis and span the rails of a 19-inch rack. Verify bracket fit and load, and leave ventilation clearance.

SHELF OR WALL MOUNT

For shelf mounting, secure the Hub to a vented shelf. Use the enclosure's side tabs for wall mounting. Leave clearance around the vents and at the rear.

ON-SITE AUTOMATION

Coordinate dust collection by zone, manage badge access with GRIT Track, review machine activity, and monitor facility conditions with compatible GRIT devices.

Network configurations

Choose where the radios go and how the Hub reaches your equipment.



Industrial Hub
Server room

GRIT Mesh Xtndr
Area approved for radios

GRIT field devices
Triggers, gates, sensors

Fully wired

Facility Ethernet + optional RS-485 GRIT Wired Mesh

Specify a Hub and display with no wireless RF hardware. Wire compatible equipment to GRIT Wired Mesh with the proposed four-port RS-485 option.

Wireless at the equipment

Facility Ethernet/IP + local Mesh Xtndr

The Hub and an Ethernet-capable Mesh Xtndr communicate over the facility IP network. The Xtndr provides the GRIT wireless mesh link to nearby devices.

Built-in GRIT Mesh

Optional Hub radio + GRIT wireless mesh

Where radios are approved at the Hub, ask about a built-in GRIT Mesh radio to reach compatible field devices.

5G cellular

Optional cellular connection for the Hub

Ask about 5G where a cellular uplink is needed and permitted. Select the field-device connection separately.

Separate sites

GRIT Tunnel + a Mesh Xtndr at the remote site

Ask about connecting a remote Xtndr over GRIT Tunnel when the facility LAN does not reach that site. Field devices connect over the local GRIT wireless mesh.