

14-slot Industrial 19" Rackmount Chassis, " 14-slot PCI/ISA or ISA Backplane and 250 Watt Power Supply "



The IEC-820 is a rugged 19" rackmount chassis designed for use in harsh environments. The chassis offers place to a 14-slot ISA, or PCI/ISA, compatible passive backplane, a high-efficiency switching power supply and a cooling fan. A removable disk drive bay can mount up to two 5¼" drives and two 3½" drives.

The IEC-820 easily withstands shock, vibration, dust and extreme operating temperatures found in harsh industrial environments. Filtered push-pull cooling fans pressurize the case to exclude dust and dirt.

An optional Temperature Control Unit can adjust the temperature inside the chassis when the environment temperature gets either too high or too low for safe operation.



Features

- 19" rackmount case meets the EIA RS-310C standard
- 14-slot ISA-bus (PC/AT compatible) passive backplane or (optional) 14-slot PCI/ISA (8x ISA, 4x PCI and 2x PICMG, or mirrored version)
- Optional Temperature Control unit for cooling or heating of the interior when environment temperature gets either too low or too high
- Field replaceable 250 W PS
- Removable disk drive bay accomodates up to two 5¼" drives and two 3½" drives
- Shock-absorbing spring buffer disk drive
- Dual push-pull cooling fan genrates positive air pressure inside the chassis
- Lockable door keeps dust out and protects controls
- Hold-down clamp protects plug-in cards from vibration
- Standard Motherboard or ATX optional



Front door with Removable Air Filter

Applications

- Telecommunication
- Heavy-duty Network Server
- Industrial Controller

Mounting panel for special connectors or cable extensions

Hold-down clamp protects cards from vibration

250 W switching power supply

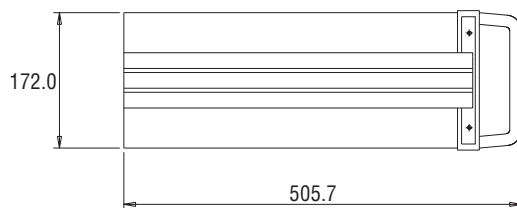
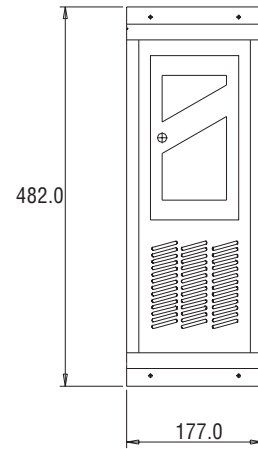
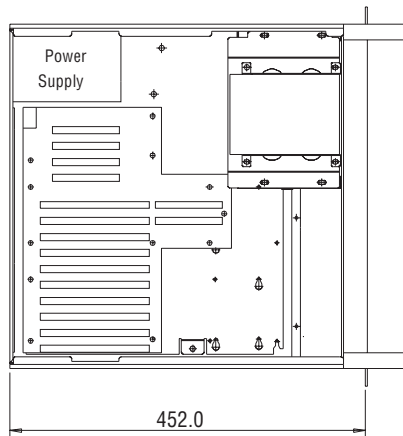
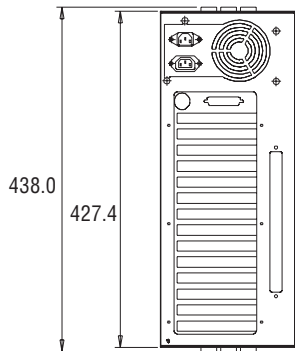
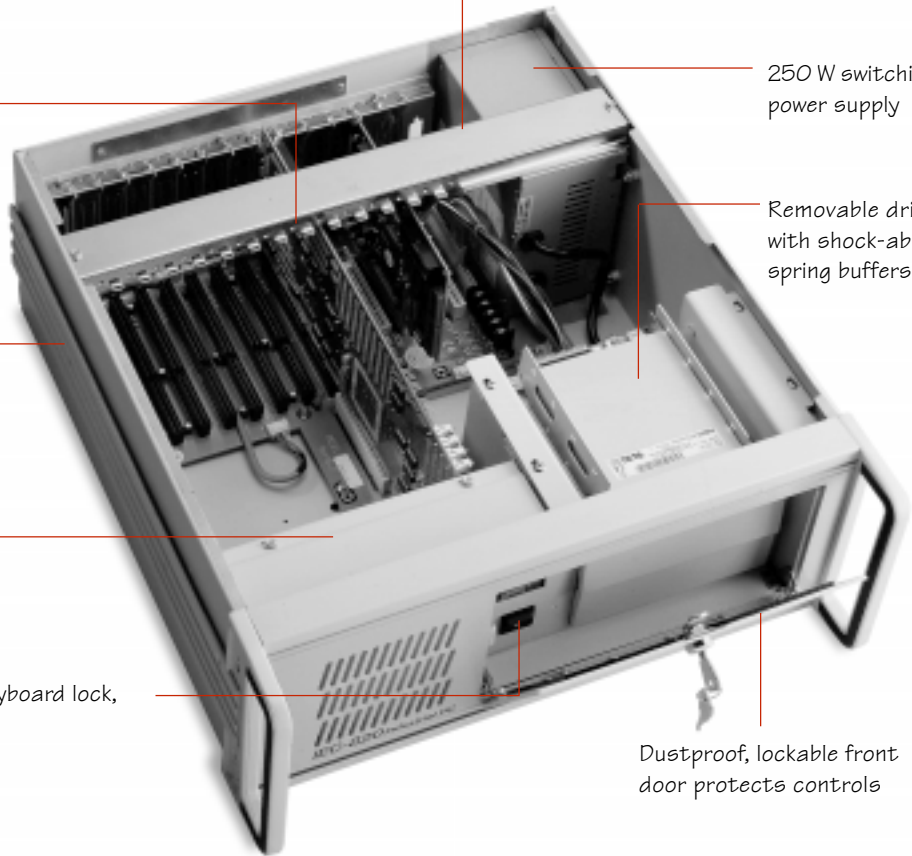
Removable drivebay with shock-absorbing spring buffers

Slide rail

Cooling fan with removable air-filter

Power switch, Reset switch, Keyboard lock, HDD, power and keylock LED

Dustproof, lockable front door protects controls



DIMENSIONS
Units in mm

Specifications

- **Construction:** heavy-duty steel
- **Disk Drive Capacity:** two 5¼" drives (both accessible from the front panel) and two 3½" drives (one accessible from the front panel)
- **Cooling System:**
86 CFM fan (flow in) with an air filter on the front panel
- **Keyboard Connector:**
5-pin DIN connectors on both the front and rear panels
- **Controls:** Reset, power On/Off, & keyboard lock switches
- **Indicators:** LEDs for power On/Off, HDD activity and keyboard lock
- **Speaker:** 8-ohm speaker
- **Dimensions:** 482 (W) x 452 (D) x 177 (H) mm
- **Weight:** 41.8 lbs (19 kg)

ISA PASSIVE BACKPLANE (PBI-14S)

- **Slots:** 14 ISA-bus; 10 full size and 4 half size
- **Indicators:** LEDs for +5 V, +12 V, -12 V, -5V
- **Option :** dual system (PBI-14SD)

PCI/ISA PASSIVE BACKPLANE (PBPI-14S)

- **Slots :** 8x ISA, 4x PCI, 2x PICMG
- **Indicators :** LEDs for +5 V, +12 V, -12 V, -5 V
- **Option :** Mirrored version (PBPI-14S2)

POWER SUPPLY

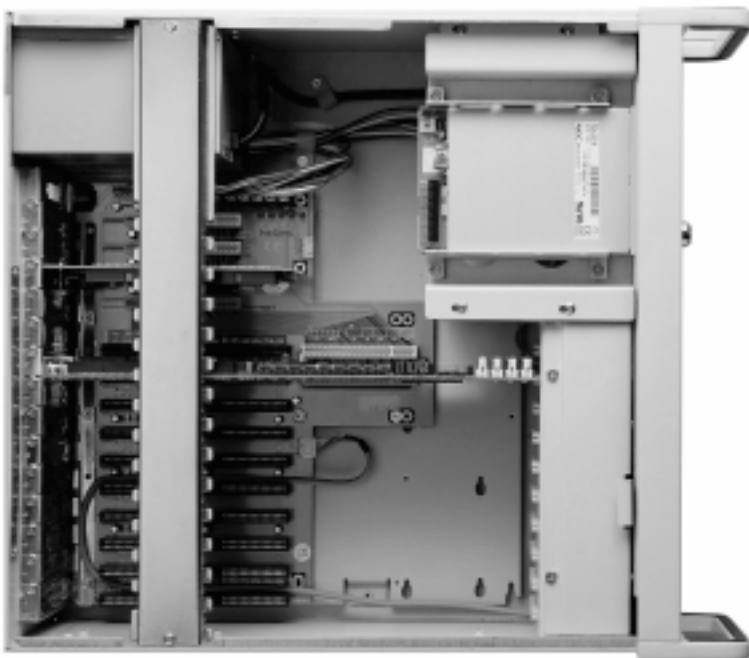
- **Output Rating:** 250 W (max.)
- **Input Voltage:** 90 to 132 V_{AC} or 180 to 264 V_{AC}
@ 47 to 63 Hz, switchable
- **Output Voltages:**
+5 V @ 25 A, +12 V @ 10 A
-5 V @ 0.5 A, -12 V @ 0.5 A (max.)
- **MTBF :** min. 50,000 hours
at 25°C (70°F) and at 70% load.
- **Safety:** UL/CSA/TÜV/CE/FCC approved

TEMPERATURE CONTROL

An optional Temperature Control Unit can condition the temperature inside the chassis when the environment temperature gets too extreme for normal operation. The module supports temperatures from -40°C to +90°C

ENVIRONMENTAL

- **Operating Temperature:** 32 to 122° F (0 to 50° C)
without Temperature Control Unit
- **Relative Humidity:** 10 to 95% @ 40° C, non-condensing
- **Vibration (operating):**
5 to 17 Hz, 0.1" double amplitude displacement;
17 to 500 Hz, 1.5G acceleration peak to peak
- **Shock (operating):**
10G acceleration peak (11-msec. duration)
- **Safety:** UL approved
- **EMI:** Meets FCC/VDE Class A



Ordering

- ❑ **IEC-820 :** Rackmount IPC Chassis with 250-watt power supply and 14-slot ISA passive backplane
- ❑ **Optional**
(please check for ordering codes)
 - PCI/ISA version
 - Standard motherboard version
 - ATX version
 - Temperature Control Unit