

iSBC 655 SYSTEM CHASSIS

A rack-mountable package for Intel microcomputer systems

Provides the Intel MULTIBUS structure used on the single board computers

Compact single chassis power supply with all standard iSBC board voltages

Forced air cooling

Attractive front panel with control switches and indicator lights

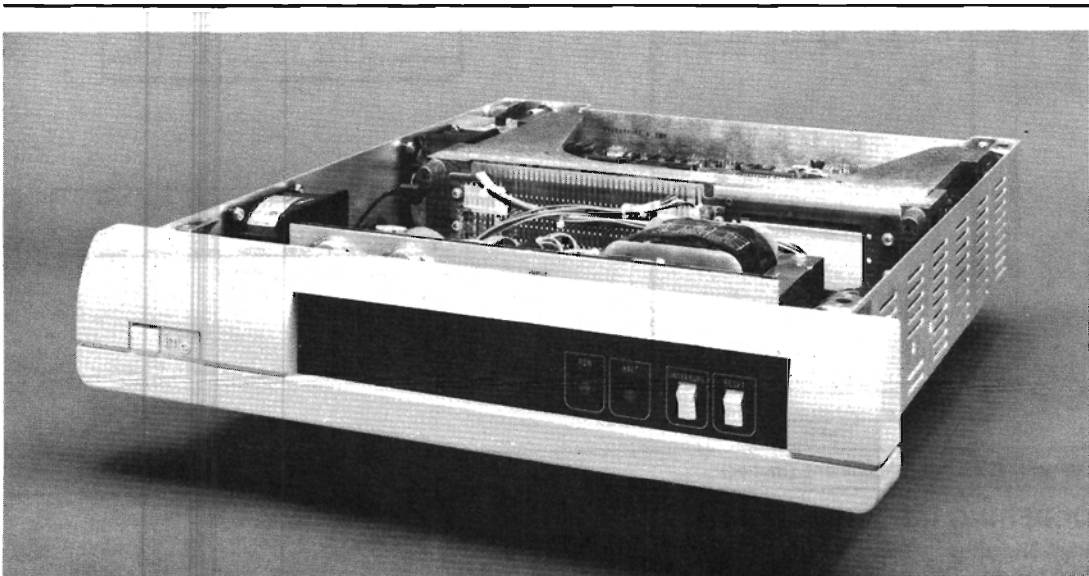
110V or 220V operation at 50/60 Hz

19-inch rack mountable

Parallel I/O connectors and RS232C cable included

The iSBC 655 System Chassis is an attractive 3.5" high unit designed for use in Intel Microcomputer Systems. The Chassis' four slots accommodate both single board computers and expansion boards which provide additional I/O, memory, or peripheral controller functions. The iSBC 655 System Chassis will accept all Intel boards using the Multibus architecture. DC power is provided at $\pm 5\text{VDC}$ and $\pm 12\text{VDC}$ levels, at current levels commensurate with typical combinations of four boards. The chassis is designed to provide adequate cooling to both power supply and circuit boards over external temperatures ranging from 0°C to 50°C . Current limiting and over-voltage protection are provided on all outputs. The power supply recognizes an AC power failure condition and provides a TTL signal sufficiently in advance of DC power failure to allow orderly system shut-down. For user convenience, system RESET and INTERRUPT switches are provided on the front panel to facilitate system restarts and provide for operator intervention. RUN and HALT LED indicators are driven to indicate the operational status of the single board computer.

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SPECIFICATIONS

Electrical Characteristics

Input Power — Frequency: 47 - 63 Hz. Voltage (Nominal) (Single Phase): 100, 115, 215, or 230 VAC +10%

Output Power:

Nominal Voltage	Current (AMPS)(MAX)	Current Limit Range (AMPS)	Max Short Circuit (AMPS)	Over-Voltage Protection
+12	2.0	2.1-3.0	1.0 (Foldback)	+14 to +16 V
+ 5	14.0	14.7-21.0	7.0 (Foldback)	+5.8 to +6.6 V
- 5	0.9	0.9-1.4	1.4	-5.8 to -6.6 V
-12	0.8	0.8-1.2	1.2	-14 to -16 V

Combined Line/Load Regulation — ±1% at ±10% static line change and ±50% static load change, measured at the output connector (±0.2% measured at the power supply under the same conditions).

Remote Sensing — Provided for +5 VDC output line regulation.

Output Ripple and Noise — 10 mv peak-to-peak maximum (DC to 500 KHz)

Output Transient Response — Less than 50 μsec for ±50% load change

Output Transient Deviation — Less than ±5% of initial voltage for ±50% load change.

Power Failure Indication (AC Low) — A TTL open collector high signal is provided when the input voltage drops below 90% of its nominal value. DC voltages will remain within 5% of their nominal values for 3.0 milliseconds (minimum, 7.5 ms typical) after AC LOW goes true.

Physical Characteristics

Height — 3.5 inches (8.9 cm)

Width — 19 inches (48.3 cm) at Front Panel, 17 inches (43.2 cm) behind Front Panel

Depth — 20 inches (50.8 cm) with all protrusions

Weight — 37 pounds (17 Kg)

Environmental Characteristics

Temperature — Operating: 0°C to 50°C. Non-Operating: -40°C to 85°C

Relative Humidity — Up to 90%, non-condensing

Equipment Supplied

iSBC 655 System Chassis with iSBC 635 Power Supply, iSBC Cardcage/Backplane, dual fans, pop-off front panel

Connector Pack with RS232C Cable (terminal/modem interface to Single Board Computers), Two 50-pin parallel I/O connectors for Single Board Computers

Schematics for Cardcage/Backplane, Chassis

Outline Drawing

Reference Manuals (Not Supplied)

9800709 — iSBC 655 System Chassis Hardware Reference Manual

9800298 — iSBC 635 Power Supply Hardware Reference Manual

9800708 — iSBC 604/614 Cardcage Hardware Reference Manual

Manuals may be ordered from any Intel Sales Representative, Distributor office or from Intel Literature Department, 3065 Bowers Avenue, Santa Clara, CA 95051

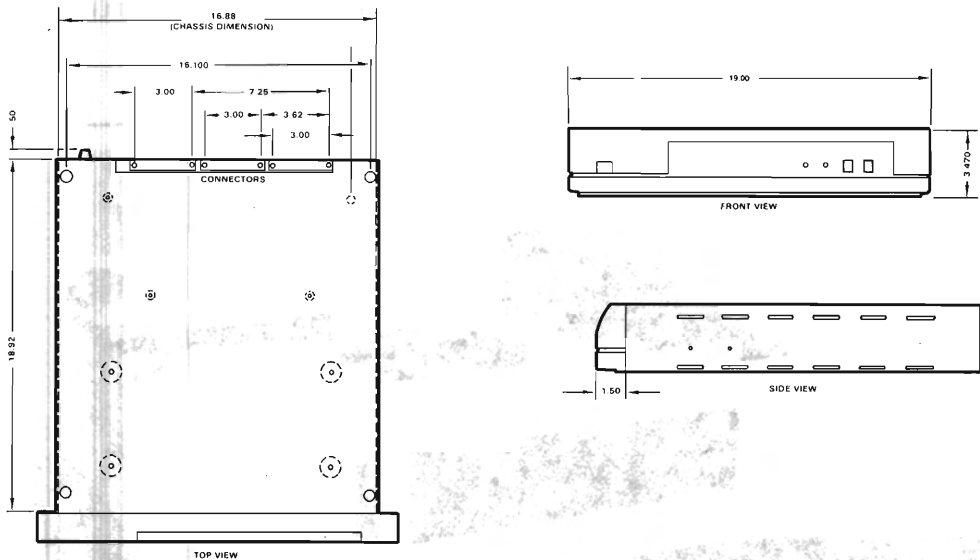


Figure 1. iSBC 655 Dimensions (Inches)

ORDERING INFORMATION

Part Number	Description
SBC 655	iSBC 655 System Chassis